

ORMSKIRK RURAL DISTRICT COUNCIL.

REPORT

FOR THE YEAR 1894.

HERBERT PECK, L.R.C.P. EDIN., D.P.H. CAMB.,
MEDICAL OFFICER OF HEALTH.

ORMSKIRK :

PRINTED AT "THE ADVERTISER" STEAM PRINTING WORKS.

1895.

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ORMSKIRK UNION RURAL
SANITARY AUTHORITY.

1894.

Chairman—REV. R. C. FLETCHER.

Vice-Chairman—HY. UNDERWOOD.

Altcar—REV. W. WARBURTON.

Aughton—JOSEPH PEET.

„ —HENRY UNDERWOOD.

Bickerstaffe—JOHN HURST.

Bispham—LAWRENCE ASHCROFT.

Downholland—JAS. SHACKLADY.

Formby (including Ainsdale)—
JAMES SEGAR,
JOHN TICKLE.

Halsall—RICHARD ASPINWALL.

Hesketh—HENRY WHITEHEAD.

Lydiat—HENRY RIGBY.

Maghull—(The late) ROBERT BALL.

Melling—JOHN VOCE.

North Meols } THOS. AINSCOUGH.
(Rural) }

Rufford—RICHARD YATES.

Scarisbrick—JAMES ACKERS.

„ —JAS. MIDDLEHURST.

Simonswood—JOSEPH WOODS.

Tarleton—REV. R. C. FLETCHER.

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Bispham—LAWRENCE ASHCROFT.

Downholland—JOHN BLUNDELL.

Formby—REV. WILFRED CARR.

Halsall—RICHARD ASPINWALL.

Hesketh—HENRY WHITEHEAD.

Lydiat—HENRY RIGBY.

Maghull—JOHN PIMBLEY.

Melling—JOSHUA CROPPER.

North Meols—WM. BLUNDELL.

Rufford—RICHARD YATES.

Scarisbrick—JAMES ACKERS.

„ —THOMAS BERRY.

Simonswood—WILLIAM MERCER.

Tarleton—REV. R. C. FLETCHER.

Medical Officer of Health—HERBERT PECK, Ormskirk.

Inspector of Nuisances—JAMES PEACH, Ormskirk.

Annual Report for 1894.

*To the Chairman and Members of the Ormskirk
Rural District Council.*

1st February, 1895.

GENTLEMEN,

I have pleasure in laying before you my third Annual Report.

It contains in addition to the usual contents, tables for the District and each Township, showing the Birth Rates, Death Rates and other Rates for the last ten years. The rates before 1891 have been carefully corrected, for the last census showed the populations of some townships to have been over-estimated and those of others to have been under-estimated, which made the rates appear lower or higher than they really were. The rates for the whole of the District were under-estimated with the exception of the Infant Mortality Rate.

I have no means of ascertaining the state of health of the District before 1885, in which year the six Rural Sanitary Districts were formed into one.

The most remarkable feature of the year in a sanitary sense has been your activity with regard to water supply, which you will find treated of in this and the Inspector's Report.

Population.—Assuming that the population has increased since 1891 at the same rate as between 1881 and 1891, we had in the middle of 1894 a **Population of 26,640.**

Birth Rate.—The number of Births registered as occurring in the District was 727. Adding the births in Ormskirk Workhouse of two whose parents belonged to the Rural District, we have the Births of 380 Males and 349 Females, 729 altogether, as the corrected number of Births, equal to a **Birth Rate** on the estimated population of **30·68** per 1000, as compared with the average for the previous nine years of **31·08** per 1000.

Death Rate.—Four hundred and thirty Deaths were registered as occurring in the District. Adding to these the deaths in Ormskirk Workhouse of eight persons, and in Preston Infirmary of one person belonging to the District, and subtracting the deaths in the Borough Isolation Hospital, North Meols, of four persons belonging to Southport, of five patients in Shaftesbury House Asylum, Formby, of five strangers found drowned, two in Hesketh, two in Rufford, and one in Formby, the death of a stranger killed on the railway in Formby and that of an infant belonging to Southport who died in Ainsdale, we have the Deaths of 236 Males and 186 Females, 422 altogether, as the corrected number of deaths for the District, equal to a **Death Rate** of **15·84** per 1000 against an average for the previous nine years of 16·36 per 1000.

Zymotic Rate.—There were 42 deaths from the seven Principal Zymotic Diseases, giving a rate of **1·61** per 1,000, against our average for the previous nine years of 1·34.

Infant Mortality.—The number of Deaths under one year was 88, equal to an **Infant Mortality Rate** of **122** per 1,000 Births, compared with our average for nine years of 115.

The rate for **Phthisis Pulmonalis** or **Consumption of the Lungs** was 1·4 per 1,000; for **Bronchitis**, **Pneumonia**, and **Pleurisy** 2·8; and for **Influenza** ·22.

The Birth Rate is lower than in 1893 and is considerably below the average. The Death Rate shows an improvement on that of the previous year and is well below the average. The Zymotic Death Rate is the highest since 1890 and is considerably above the average ; you will find the causes of the increase in this rate remarked upon under the heading of Infectious Diseases. The Rate of Infant Mortality is better than that of the previous year but is considerably above the average.

The Phthisis or Consumption Death Rate is slightly worse than usual, while the Death Rates for Respiratory Diseases and Influenza are satisfactorily lower.

Forty-nine deaths were registered as being from Old Age, equal to an **Old Age Death Rate** of 1·84 per 1,000, or 11·6 per cent. of the total deaths. If all the deaths over seventy years of age were taken as being from Old Age, we should have an Old Age Death Rate of 3·07 per 1,000, equal to 18·95 per cent. of the whole.

Table showing the Acreage, Estimated Population, Number of Inhabited Houses, Public Houses and Beerhouses, Birth Rate, Death Rate, Zymotic Death Rate and Infant Mortality of each Township and the District. Some of this information may be found in other places, but I insert it here for purposes of comparison.

	Acreage.	Estimated Population, 1894.	Number of Inhabited Houses	Public Houses & Beerhouses.	Birth-Rate.	Death-Rate.	Zymotic Death-Rate.	Infant Mortality per 1000 Births.
ALTCAR	4083	616	87	0	22·7	14·6	<i>Nil.</i>	143
AUGHTON..	4610	3563	726	13	27·5	14·84	2·5	112
BICKERSTAFFE	6444	2149	382	1	32·33	15·65	1·59	95
BISPHAM	926	253	54	2	15·8	11·8	<i>Nil.</i>	<i>Nil.</i>
DOWNHOLLAND....	3473	777	141	4	18·	14·2	1·68	357
FORMBY.....	6619	6801	1180	6	24·1	12·1	1·03	67
HALSALL	6995	1232	233	2	33·3	22·7	·81	195
HESKETH.....	4736	956	205	2	39·8	28·2	5·23	184
LYDIATE	1995	1082	221	4	23·3	21·4	·92	120
MAGHULL	2098	1420	271	10	23·9	14·1	·7	118
MELLING	2118	955	157	3	33·7	18·8	<i>Nil.</i>	103
NORTH MEOLS....	4802	1641	349	1	33·2	15·8	1·21	145
RUFFORD	3120	789	159	2	24·1	17·7	6·33	105
SCARISBRICK	8397	2238	442	5	24·1	11·6	·44	55
SIMONSWOOD	2645	413	68	2	33·9	29·1	4·84	357
TARLETON.....	5553	1732	404	3	28·3	14·4	1·73	81
DISTRICT	65830	26640	5079	71	27·13	15·54	1·61	116

Table showing the number of Infected Houses in each Township with the numbers of Cases and Deaths.

1894.	TOWNSHIP.	Smallpox.			Scarlet Fever.			* Diphtheria.			Fever.			Measles.			Whooping Cough.			Diarrhea and Dysentery.			Erysipelas.			Puerperal Fever.			Totals.		
		H.	C.	D.	H.	C.	D.	H.	C.	D.	H.	C.	D.	H.	C.	D.	H.	C.	D.	H.	C.	D.	H.	C.	D.	H.	C.	D.	H.	C.	D.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	ALTCAR	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	AUGHTON	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	BICKERSTAFFE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	BISPHAM	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	DOWNHOLLAND	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	FORMBY	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	HALSALL	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	HESKETH	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	LYDIATE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	MAGHULL	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	MELLING	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	NORTH MEOLS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	RUFFORD	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	SCARISBRICK	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	SIMONSWOOD	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	TARLETON	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	TOTALS, 1894.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	" 1893.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	" 1892.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	" 1891.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	" 1890.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Cases of "Membranous Croup" included.

INFECTIOUS DISEASES.

The table on page 7 shows the number of cases of Infectious Diseases which came under my notice during 1894, with the number of houses infected, and the number of deaths caused by each disease. The total number of cases was 777, against 545 in 1893, 189 in 1892, 365 in 1891, and 1139 in 1890, in which year the Compulsory Notification Act came into force. The increase in the number of cases compared with 1893 was principally due to the epidemic of Measles in Bickerstaffe, but the number of cases of Whooping Cough and Diphtheria also increased.

The following cases were notified by the medical attendants:—

Smallpox	1 case.
Scarlet Fever (in the first place).....	95 cases.
Scarlet Fever (after previous discovery by me)	29 „
Diphtheria	33 „
Enteric or Typhoid Fever	45 „
Erysipelas	11 „
Puerperal Fever	1 case.
Total cases.....	<hr/> 215 <hr/>

Several of the following cases were notified by Medical Men, and many were notified by School Teachers, the School Attendance Officers, Clergymen, Registrars of Deaths, and private individuals, but the large majority were discovered by my systematic inquiries, generally after receiving an intimation of a case from one of the above:—

Scarlet Fever	22 cases.
Diphtheria	1 case.
Measles	436 cases.
Whooping Cough	96 „
Diarrhœa	5 „
Total cases.....	<hr/> 560 <hr/>

THE INCREASE IN THE ZYMOTIC RATE.

The average Zymotic Rate for the five years 1885 to 1889 was 1·3, and the average for the five years 1890 to 1894 was 1·4, which makes our Zymotic Rate appear to have gone up, and your efforts to get rid of infectious disease to have been thrown away.

I do not think this is really the case. Many deaths were returned in the first period of five years as being from Croup, which would nowadays be returned as being from Diphtheria. Our Croup rate in the first period averaged ·26 per annum, and in the second ·04, or less than one-sixth. Our Diphtheria rate in the first period averaged ·17, and the second ·27.

Our records show that wherever we have had an outbreak of Diphtheria, we usually have had an increase in the number of deaths ascribed to Croup. The first deaths in an outbreak have often been put down to Croup, and when the disease has spread, most of the later deaths have been put down to Diphtheria.

If we include Croup, our average Zymotic rate for the five years 1885 to 1889 was 1·55, and from 1890 to 1894, 1·48, and our average for the ten years 1·51.

The increase in the Zymotic Rate during 1894 was due to successive importations of infectious disease, which spread in some instances before discovery. Three of the original patients died.

Disease frequently spread after discovery, owing to our being without hospital accommodation for these cases. The following are some instances of this :—

Two children in Aughton died of Scarlet Fever, who contracted the disease from a previous case at home.

Two children who died in Rufford of Scarlet Fever were not attacked until the first patients were getting well.

Another who died in Tarleton of Diphtheria was not a first patient.

Seven cases of Typhoid Fever occurred in one house in Banks : if the first three cases had been removed there would probably have been no more. It was impossible to obtain isolation, and one of the trained nurses whom I placed in charge of the patients contracted the disease, though she took as much care of herself as was compatible with her duty.

A case of Typhoid Fever imported into Hesketh was the cause of four other cases, one of which proved fatal. The case was notified to me on the day the patient arrived home from sea. I visited the house at once and found the household willing to follow my advice as far as they could, but they were not able to isolate the patient. I had no place to take him to except the Southport Isolation Hospital, and though our Southport friends would have assisted us if they could, they could not then spare a bed.

We cannot obtain the full benefit of the Compulsory Notification of Infectious Diseases Act until we have a properly-equipped isolation hospital and a proper system of disinfection.

THE COSTLINESS OF INFECTIOUS DISEASE.

A glance at the figures given below will show you what an expensive luxury it is to have an outbreak of infectious disease in your District, especially when you are unprovided with an isolation hospital.

Through the kindness of the medical gentlemen who attended 57 of the 72 patients, I am able to give this accurate estimate of the cost of the outbreak of scarlet fever in connection with Holt Green School. The other fifteen patients had no medical attendant, though they were isolated.

	£	s.	d.
Medical Attendance	78	17	0
Three Funerals	7	0	0
Disinfectants purchased by householders, } upwards of	1	0	0
Disinfectant Powder supplied by the } Authority.....	1	5	0
Notification Fees paid by the Authority.....	7	2	6
<hr/>			
Approximate money cost.....	£95	4	6

To which must be added—The lives of three healthy children : much suffering, chiefly among children : much anxiety to parents and others : an immense amount of work ; and temporary loss of occupation by several householders, mostly in poor circumstances.

SMALLPOX.

One case occurred in Formby. The patient was a healthy and temperate man, aged 25, who contracted the disease when at sea. He had no perceptible vaccination mark. The rash was hæmorrhagic and confluent. The patient died on the seventh day of the rash.

All persons who were known to have been in contact with him were re-vaccinated, and there was no spread of the disease.

SCARLET FEVER.

HOUSES INFECTED, 79 ; CASES, 146 ; DEATHS, 11.

Seventy-seven or more than half the total number of cases occurred in Aughton. The first of these was notified in April and the disease did not spread. The second was notified on the 9th of August, and I could not discover its origin. The third was notified on the 24th August, and my enquiries concerning it led me to a house where I found three more patients. Two of these were “peeling” freely and one had been attending Holt Green School for a week. I asked the managers of the school to close it for a week while I made inquiries concerning recent absentees, and at the end of it had found thirty cases, most of them with the rash out or just appearing.

The school was closed for seven weeks, and when it re-opened on the 15th October I attended and examined 133 children on their admission. I rejected and sent home five ; one of these was “peeling” freely and another peeled a fortnight later ; two others had a curiously rough skin, but subsequent examinations convinced me that it had no connection with scarlet fever ; the guardian of the fifth child strenuously denied that she had been ill in any way, but the roughness of the skin disappeared

and was followed by rheumatism and a discharge from one ear, and I have no doubt the child had suffered from a mild attack of the disease. A doctor who subsequently saw the patient came to the same conclusion.

I believe the first patient of the Aughton outbreak brought the disease from a neighbouring city late in July. The last notification of a case was received on the 18th of November, but I found two cases a week later.

Four cases with two deaths occurred at the Ormskirk end, and appeared to have no connection with Holt Green School.

The thirty cases in Rufford call for some remark. The first two were a legacy from 1893, and soon recovered. The next sixteen occurred in May about Holmes Wood and gave rise to one in Scarisbrick. I heard of some cases of "measles" in Holmes, and when on my way to visit them, met a doctor who informed me of a fatal case of Puerperal Fever, and of two cases of Scarlet Fever in the same house. I made a house to house visitation and found sixteen cases of Scarlet Fever in Holmes, most of which were notified later, but no case of Measles.

The last twelve cases occurred in October and were all in connection with Rufford School. I visited the school on the 17th October and examined 107 children, when I found a girl "peeling" freely on her hands, feet, and legs. She was sent home and isolated, and I have had no case of Scarlet Fever in Rufford since then. The girl came from near Holmes, and the distance of time between the small but fatal outbreaks points to undiscovered cases having occurred between them. I believe the parents of the girl were ignorant of the nature of the disease until I told them.

Nine of the thirteen cases in Formby occurred during the last three months of the year, and the appearance of six apparently isolated centres for infection caused me a good deal of uneasiness. Three children belonging to different families attended the same

private school, and the scholar was the first to be attacked in each family. I made careful inquiry at the school on several occasions, but could find nothing to point conclusively to the school being the centre of infection.

I do not think that the isolated cases in the other townships call for any remark except that I satisfactorily traced the origin of most of them.

DIPHTHERIA.

Houses infected, 27 ; Cases, 33 ; Deaths, 4.

I have mentioned the nature of the water supply in each case, for some believe the disease to be sometimes transmitted by water, though it is not yet proved.

AUGHTON.

1.—Mrs. E. E., 37 years. This case occurred during my absence from home. The Inspector reported that the disease was attributed by the occupier to emanations from neighbours' premises, but he found on inspection of the house that the cellar-floors had been covered with liquid sewage a few days previously from the bursting of a soil-pipe, caused by the cesspool not being emptied regularly. Southport Company's water.

2.—A. S. S., 47 years, came home with the disease. Sanitary conditions excellent. Southport water.

FORMBY.

3.—M. E. V. C., 5½ years. Sanitary conditions good, except that a neighbour was in the habit of emptying his cesspool into the boundary ditch, 4 yards from the house. Southport water.

4.—E. C., 7 years.

5.—K. S., 11 years.

6.—E. D.

7.—M. E. M., 7 years.

Nos. 4, 5, and 7 attended the same private school, and No. 5 danced with No. 6 at a dancing class the day before the latter was taken ill. These were very mild cases. The sanitary conditions at each house were good, but the drainage at the school was unsatisfactory. All five houses supplied with water by the Southport Company.

8.—H. H., 14 years. An imported case. Sanitary surroundings excellent. Southport water.

9.—A. M., 19 years, was believed to have contracted the disease in a neighbouring town. Sanitary surroundings good. Southport water.

10.—Mrs. A. M., 67 years, mother of the last, slept with her.

11.—R. M., 29 years, son of the last, lived in same house.

12.—T. S., 20 years, was suffering from the disease when he came home from a city forty miles away. Southport water.

13.—E. H. N., 4 years. Sanitary surroundings excellent. No history of infection. Southport water.

HESKETH

14.—E. R., 17 years, came home from a house in a neighbouring district suffering from a severe sore-throat, which had affected others in the house.

15.—Fatal case. H. R., 10 years, was sister and bedfellow of the last. Surroundings insanitary. Water doubtful.

LYDIATE.

16.—M. A. K., 18 years. Surroundings insanitary. No drainage. No history of infection. Water doubtful.

TARLETON.

17.—M. B., 4 years. Case was notified on 14th March. No history of infection. There are good closet, ashpit, and drain

for house refuse. Rain water used for drinking purposes. This house has always been an unhealthy one, typhoid fever having appeared in it twice in recent years.

18.—J. J., 7 years, lived with his grandfather. He came home on the 16th September from a neighbouring town, where he had been staying, suffering from “sore-throat.” Attended Tarleton school. No proper drainage. Water carried from James Ball’s well.

19.—T. J., 10 years, brother and bedfellow of last, complained of sore-throat a few days after return of last. Attended Tarleton school.

20.—Fatal case. H. J., 5 years, brother of the last, slept with him a few days before he was taken ill, though he usually stopped at his father’s. Attended Sollom school. Surroundings insanitary. Water carried from James Ball’s.

21.—Fatal case. G. J. A., 5 years, attended Sollom school.

22.—Mrs. S. J. A., 30 years, nursed her son, the last patient, and was taken ill two days after his death. Sanitary surroundings good, but water carried from J. Wilson’s.

23.—G. I., 6 years, attended Sollom school and used to sit next to G. J. A. (No. 21). No proper drainage to house. Water carried from the pit in Mr. Bonny’s field.

24.—G. E., 12 years, attended Tarleton school. No history of infection. Surroundings sanitary, but water carried from Bonny’s pit.

25.—Fatal case. J. C., $2\frac{1}{2}$ years, did not attend School, but his brother Robert, aged 9, who attended Tarleton School, had a “cold and sore-throat” a week before he was taken ill. Surroundings insanitary. Water from Bonny’s pit.

26.—J. W., 6 years, attended Sollom School. Surrounding fairly sanitary. Water apparently good.

27.—J. R. B., 4 years, lives next door to last. Sanitary conditions and water as last. No history of infection. The case was notified on 2nd Oct. The medical attendant and I examined the throats of the other children, but could see nothing wrong.

28.—K. B., 7 years, sister to last, was the only member of the family who attended school. Case was notified on 18th Oct. I regret that the medical attendant and I did not have cultivations made from swabbings from the child's throat when her brother was taken ill. She did not come into contact with her brother after the 2nd Oct.

29.—R. H., 45 years, had been away from home on several occasions, but did not know that he had exposed himself to infection. All other members of the household apparently well. Good sanitary surroundings. Water apparently good.

30.—T. T., 10 years, attended Tarleton School. When inspecting the house in which he lived, I found this patient ill in bed with typical diphtheria. Premises were very insanitary, and have since been condemned as unfit for human habitation. Water was carried from Peter Houghton's well.

31.—H. T., 7 years, attended Tarleton School. No drains to the house, but everything in a clean and tidy condition. Water carried from Thomas Taylor's well.

32.—J. L., 14 years, notified on 2nd January of this year, probably contracted the disease when away from home. There is want of drainage and the house is very damp. Water apparently good.

33.—W. H., 6 years. No history of infection, but his mother suffered from "sore-throat" at the beginning of December: this began a week after she visited a house where there had been a case of diphtheria, but I know that the house had been disinfected and white-washed throughout a week before her visit. There is want of house drainage. The well-water is peaty, but rain-water is generally used.

REMARKS.

Most of the thirty-three cases appear to have arisen from direct infection.

I have placed, so far as I can, the Tarleton cases in the order in which they occurred. I have no doubt that case No. 18 was the first in this outbreak. His brothers received the infection from him, and the further spread took place through the schools. Sollom and Tarleton Schools are attended by children from the same families, the younger children going to Sollom and the older to Tarleton School.

ENTERIC OR TYPHOID FEVER.

Infected houses, 33 ; Cases, 46 ; Deaths, 6.

Careful perusal of the following will show that typhoid fever is more infectious than most people, even medical men, suppose. It is my lot to see case after case arise from direct infection, and I find it very difficult to persuade relatives and friends to exercise the care they would in a case of scarlet fever.

I found no case attributable to milk supply.

AUGHTON.

1.—L. V., 22 years. Excellent sanitary conditions. No apparent cause, or history of infection. Water supply from Southport Co.

2.—J. B., 38 years. An imported case. Good sanitary conditions, but water from a well which undoubtedly contains vegetable matter.

3.—Fatal case, J. P., 26 years. Good sanitary conditions. Cause obscure. Southport water.

4.—A. H., 20 years. Surroundings insanitary from carelessness, there being overfull cesspool, privy and ashpit. It appears that the disease may have been contracted outside the District, as the patient was ill when she returned home from a visit a fortnight before the disease declared itself. Southport water.

5.—A. W., 39 years. Surroundings very insanitary. Patient had not been away from home. Southport water.

FORMBY.

6.—O. M., 15 years. The premises were in a disgusting state from want of attention to the drainage system, but the patient, who spent much of his time from home, was believed to have contracted the disease elsewhere. Southport water.

7.—H. P., 3 years. Gas from the cesspool made its way into the bathroom through a badly constructed closet. Southport water.

8.—A. P., 5½ years. Good sanitary conditions. Cause very obscure. Southport water.

9.—M. P. M., 11 years. Pan-closet with insufficiently ventilated soil-pipe. Waste-pipe from bath not disconnected, but going straight into the drain to the cesspool, which was very near the house. Privy emptying into ashpit, the bottoms of both being below the ground-level and uncemented. Southport water.

10.—Fatal case, E. A. D., 6 years. Sanitary condition of premises good, but the next door premises were in a filthy condition. Southport water.

11.—J. E., 46 years. Surroundings insanitary. Patient maintains that he contracted the disease while working among manure made of towns' refuse, which repeatedly made him sick. Southport water.

12.—A. E., 5 years. Cesspool overfull. Closet and ashpit full of filthy liquid. A home-grown case, I have no doubt. Southport water.

13.—J. T., 40 years. Very insanitary surroundings. Patient believed he contracted the disease when emptying a cesspool, but he does this regularly. Southport water.

14.—M. J., 9 years. Cesspool leaky and consequently rarely emptied, but other surroundings good. Southport water.

15.—J. W. E., 21 years. Excellent sanitary surroundings. The patient apparently contracted the disease while sitting in a room, which had recently been tenanted by a typhoid patient, while his companions stripped off the wall-paper. This was twelve days before he began to feel unwell. Southport water.

HALSALL.

16.—R. P., 17 years. Good sanitary surroundings. The disease was probably acquired away from home. Water peaty but the best procurable thereabouts.

HESKETH.

17.—J. B., 19 years. A watercourse passes on the other side of the road, crosses the road and passes down one side of the garden. This was fouled by the sewage of this and the adjoining houses, and also by excremental and other sewage from an hotel. Rainwater usually used for drinking purposes, but sometimes doubtful well-water.

18.—Fatal case. H. R., 42 years. Surroundings very insanitary. The owner and occupier was under notice to put the property in sanitary condition, but had been allowed six months to do so, as he wished to rebuild the house. The patient came home from sea ill with the fever, and his medical attendant notified the case the same evening. Doubtful water.

19.—R. R., 68 years, father of the last patient, acquired the disease from him.

20.—Fatal case. E. R., 32 years, daughter of last patient helped to nurse the last two patients. She died in Preston Infirmary.

21.—R. C., 7 years, grandson of occupier, lived in same house.

22.—R. R., 27 years, son of the house.

The stools of the last five patients were carefully treated with corrosive sublimate solution and buried an hour afterwards at a distance from the house. There is no reason to suppose that they infected any water supply.

LYDIATE.

23.—W. H., 3 years. Drains completely blocked. Slop-water thrown about yard. Patient may have taken disease from next door. Southport water.

24. E. C., 2 years, lived next door to last. Premises in good order. Southport water. This patient probably acquired the disease from a person, lodging in the house, who was then recovering from an attack of typhoid fever, contracted while nursing another case at a house a mile away. See Nos. 39 and 47 in last year's report.

25.—Fatal case. M. H., 30 years. Excellent sanitary surroundings but water doubtful, though used by many healthy people. An obscure case.

MAGHULL.

26.—T. F., 8 years. Surroundings very insanitary. Water was bad, but I do not think it was the cause of the disease; six households used it, but only one suffered.

27.—G. F., 1 year, brother of last patient.

28.—M. F., 5 years, brother of last patient.

29.—J. B., 11 years. Surroundings insanitary. No history of infection. Southport water.

30.—J. L., 26 years. Pan-closet with unventilated soil-pipe, which passed through a parlour, the ceiling of which was stained by percolation from it. The waste-pipes from the bedroom lavatory bowl, the billiard-room lavatory bowl and the urinal passed directly into the soil-pipe without even a bend to trap them. The privy emptied into an uncovered ashpit, the bottoms of both being below the level of the ground. Southport water.

MELLING.

31.—C. H., 38 years. Surroundings sanitary but for doubtful well-water. Patient empties privies and middens in Liverpool and brings out the manure, and probably acquired the disease while so engaged.

NORTH MEOLS.

32.—H. T., 10 years. Surroundings were exceedingly filthy. Southport water.

33.—J. T., 11 years, sister of last patient.

34.—M. T., 6 years, as last.

35.—J. T., 35 years, father of the family.

36.—W. T., 4 years, son of last.

37.—T. T., 7 years, another son.

38.—M. T., 35 years, mother of the family.

The first nurse, whom I engaged at your expense to look after the family, had to go home after helping for a week, and developed the disease a week later.

39.—R. B., 9 years. Sanitary surroundings good except for privy. No history of infection. Southport water.

SCARISBRICK.

40.—A. B., 25 years. Surroundings insanitary. Water doubtful. This is one of a series partly reported last year (see Nos. 48, 51, and 58). A woman contracted typhoid fever; her child was frequently in her room and developed typhoid fever a week after she died; the child recovered, and her nurse went back to her home a mile away and sickened with the fever about a week later. Her daughter, the patient A. B., nursed her and went down with it as her mother was getting better. A. B.'s child, 4 years old, was also ill, but the disease was of an obscure nature, and the medical attendant told me he scarcely considered it typhoid fever.

41.—E. P., 52 years. Sanitary surroundings bad. Water doubtful. Patient worked at a railway station, and attributed the attack to the vile emanations from the towns' refuse which arrived there for manure.

42.—E. G., 14 years. Excellent sanitary surroundings. Patient ill for a day or two. Southport water.

43.—T. J., 12 years. Excellent sanitary surroundings. No history of infection. Southport water.

TARLETON.

44.—H. J., 14 years. Drains blocked, but premises clean. No history of infection. Water good.

45.—M. J., 12 years, sister of last patient.

46.—J. P., 24 years. No drainage. Patient was thought to have contracted the disease in Banks. Water doubtful.

DISINFECTANT FLUID FOR TYPHOID STOOLS.

The disinfectant fluid for use in cases of typhoid fever has now been supplied by you for six months, and I find it is highly appreciated by the householders unfortunate enough to have the disease in their houses and also by the medical men of the district.

Its composition is :—

Corrosive Sublimate	...	...	Half an ounce
Strong Commercial Hydrochloric			
Acid	...	...	One ounce
Aniline Blue	...	...	Five grains
Coarse Wood Naphtha	...	...	One ounce
Water	...	...	Up to twelve ounces.

The fluid is supplied in twelve-ounce blue fluted bottles, bearing a numbered label similar to the enclosed.

MEASLES.

Houses infected, 202 ; Cases, 436 ; Deaths, 8.

I find it difficult to get at the true number of cases. Most people appear to think the disease too trifling to report, though it kills almost as many as Scarlet Fever.

*Keep this Bottle out of the reach
of Children.*

POISON.

DISINFECTANT

For Motions in Typhoid Fever.

NOT TO BE USED IN METAL VESSELS.

MIX one ounce, or two tablespoonfuls, with one quart of water and the Disinfectant is ready for use, Allow the Disinfectant to remain at least half-an-hour with the motion before burying it.

Ormskirk Rural District Council.

HERBERT PECK,
Medical Officer of Health, Ormskirk.

Two hundred and seventy-six cases occurred in Bickerstaffe during November and December. The first cases were in two families from which children attended school in Skelmersdale, where the disease was present in the autumn. The spread was slow until the school became infected, when the disease was carried to all parts of the township and into Simonswood.

A few cases appeared in the spring in Banks, where it was prevalent in the previous spring.

Ninety-one cases occurred in Formby in April and May, and were principally in the Old Town Ward, though the other wards suffered. I have reason to think that many cases occurred of which I did not hear.

Cases occurred in the portion of Altcar adjoining Formby.

Forty-three cases occurred in Hesketh. There would have been more but for the prompt closing of the school.

The cases in Rufford and Tarleton appeared to be in connection with the Hesketh outbreak.

WHOOPIING COUGH.

Infected Houses, 54 ; Cases, 98 ; Deaths, 7.

A glance at the table on page 7 will show you the distribution of the cases.

It is difficult to find out anything like the true number of cases, for the disease is popularly regarded as a necessary evil, and few persons take the trouble to report a case.

The cases in Formby were all in Ainsdale and in connection with the schools, of which the Roman Catholic was the most affected.

A case occurred in which the period of incubation, or the time the disease takes to show itself after infection has taken place, was marked accurately. A woman accompanied by a child

visited another, who lived among the sandhills and rarely had visitors, on the 20th of January. Two weeks later the patient, aged $1\frac{1}{2}$ years, appeared unwell and had a slight cough, and on the 10th of February (three weeks after the visit) had the characteristic whoop. The mother then went to her friend's house to inquire, and found that her friend's child had commenced to whoop three or four days after the visit. Ten days after this the sister of the patient appeared unwell, and a week later she also began to whoop.

You have here an instance of a child who had not commenced to whoop infecting another, who in turn gave the disease to his sister before he began.

DIARRHŒA.

Many cases. Five deaths, to which 18 of our Zymotic Rate is due.

No. 1.—9 months old at death, was always weakly and troubled with "stomach complaint." Was fed with a long tube bottle from birth.

No. 2.—6 months old, was always weakly and wheezy on the chest from birth. The mother nursed him for three months, after which she was obliged to feed him artificially, which she did from a long tube bottle.

No. 3.—5 months old, was always strong and healthy till he caught cold a week before death. Was brought up on a long tube bottle.

No. 4.—4 months old, was a strong healthy child. He was fed on cow's milk from birth, by hand in day and by a long tube bottle at night.

No. 5.—3 months old, was a remarkably fine child at birth. Was fed partly from breast and partly with bread and milk (from the second day), though the mother had always plenty of milk. Surroundings insanitary.

ERYSIPELAS AND PUERPERAL FEVER.

The cases of these diseases call for no special remark.

CLOSING OF SCHOOLS.

I found it necessary to advise the closing of the following schools on account of the prevalence of infectious disease in connection with them, and I made a special report to you in each case. The measure was attended with complete success in every instance.

The schools closed, the period of closure, and the diseases for which it was necessary, were:—

1.—St. Mary's Catholic Schools, Formby, from the 27th of January to the 25th of February, on account of Measles.

2.—The National Schools, Hesketh, from 28th of April to the 26th of May, on account of Measles.

3.—St. Peter's Church of England Schools, Formby, from the 12th May to the 9th of June, on account of Measles.

4.—Holt Green Schools, Aughton, from the 27th of August to the 15th October, on account of Scarlet Fever.

5.—Sollom and Tarleton Schools, from the 4th of October to the 3rd of November, on account of Diphtheria.

6.—Bickerstaffe Schools, from the 19th of November to the close of the year, on account of Measles.

WATER SUPPLY.

The accompanying map shows very well the course of the water-mains in the district. I wish to acknowledge, with thanks, the assistance in preparing it rendered by Messrs. Wood and Brodie, of Liverpool, Mr. Rofe, of Southport, Mr. Lackland, of St. Helens, and Mr. Ivy, of Ormskirk, to Mr. Beeston and myself. I think the map will give you and others a clearer idea of the amount of work done in late years with regard to water supply than you have had an opportunity of gaining hitherto.

The extensions during 1894 were all made by the Southport Water Company, and, with two exceptions, at your request.

The extensions made were in :—

1.—Moss Lane, Aughton, 770 yards, to supply one farm and two cottages.

2.—Cut-lane, Aughton, and Primrose Hill, Halsall, 2620 yards. This was not laid at your request, but, if it had not been in contemplation, I should have called your attention at the end of 1893 to the want of water in this portion of the district. It was finished late in the year, and six houses had been connected at the end of the year.

3.—Near Weaverhouse Bridge, Halsall, 266 yards, for six cottages.

4.—Carr Moss Lane, Halsall, 5593 yards, to supply ten farms and twelve other houses. The water supply of Carr Moss Lane was before you from November, 1891 till the autumn of 1894. I think the owner of the property and the Southport Company, not to speak of yourselves, must have heartily tired of the question, but at length opposing interests have been reconciled. The terms of supply are according to the quantity used in the case of farms, and on the rateable value in the case of cottages.

5.—Victoria Road, Freshfield, Formby, 740 yards, to one house. This was not laid at your request.

6.—Jackson's Common, Scarisbrick, 606 yards to one farm and six cottages.

7.—Bescar Lane, Scarisbrick, 1166 yards, to five farms and seven cottages.

8.—From the Morris Dancers, 3336 yards. No connections made yet.

You will see that some of the extensions made are not likely to pay their way, at any rate in the near future, but water was badly needed in the above-named places. The Southport Water Company and their Manager, Mr. Rofe, have done much to help us, and I know you are sensible of it. Indeed, a formal vote of thanks was accorded them by the late Aughton Parochial Committee.

The proposed extensions of mains are:—

1.—From Lydiate to Downholland Bridge by the Southport Company.

2.—Several in Simonswood for the Earl of Sefton by the Corporation of St. Helens.

3.—In Bickerstaffe by yourselves. The water to be supplied from Scarth Hill Waterworks by the Skelmersdale District Council.

Lastly, new mains are to be laid by yourselves in Tarleton and Hesketh, the Preston Rural District Council supplying you with water.

The plans for the last two may perhaps be modified in some particulars.

The Rev. R. C. Fletcher and Mr. Whitehead, acting as a sub-committee, undertook the serious work with regard to the proposed supply for the townships they represent.

HOUSES SUPPLIED BY PUBLIC SERVICE AT THE END OF 1894.

	Liverpool Corporation.	Ormskirk Local Board.	St. Helens Corporation.	Skelmersdale Local Board.	Southport Company.	Totals.	Percentage of Inhabited Houses.
AINSDALE .....	...	..	...	...	227	227	*84·9
AUGHTON .....	...	63	...	...	524	587	81·4
BICKERSTAFFE .....	...	34	...	35	...	69	18·
FORMBY .....	...	..	...	...	779	779	*84·9
HALSALL .....	...	..	...	...	83	83	35·6
HESKETH .....	...	...	...	...	1	1	·5
LYDIATE .....	...	...	...	...	67	67	30·4
MAGHULL .....	...	...	...	...	147	147	54·2
MELLING	1	...	...	...	...	1	·6
NORTH MEOLS .....	...	...	...	...	326	326	93·4
SCARISBRICK .....	...	...	...	..	141	141	31·9
SIMONSWOOD .....	...	...	24	...	...	24	35·3
							* together.
TOTALS.....	1	97	24	35	2295	2452	47·8 of District.

The above table will show you at a glance the townships which are partly supplied by public service. Few would suppose, till they looked at the percentage column, that North Meols has the best water supply in the district, and that Aughton comes third only.

Burscough having left us, it is necessary to calculate again our percentages of public supplies, and I find that 43·6 per cent. of the total inhabited houses were supplied by public service in 1891, 46·3 per cent. in 1893, and 47·8 per cent. at the end of 1894.

The increase of one and a half per cent. for last year appears trifling when we consider the amount of work done, but you must remember that not more than one-third of the houses along the routes of extension have been connected yet. You will not be able to see the result of last year's work till the end of this year, and perhaps not all of it then.

WATER ANALYSIS.

I analysed 48 samples of water during the year, one of which came from Burscough in January, and another from Simonswood Brook. Thirty-nine of these were condemned, three were accepted temporarily till a public supply became available, three were accepted as usable, and one as sufficient. These must not be taken as affording a fair sample of our water supply from wells, for they were selected as being doubtful or worse.

LIST OF ANALYSES.

The initials following the numbers are those of the respective owners, and the nature of each supply is stated, as well as your action.

AUGHTON.

1.—J. S. Rainwater tank, formerly a well. Accepted as sufficient.

2.—E. P. Shallow well. Condemned.

3.—C. H. Shallow well. Condemned.

4.—C. B. Shallow well. Condemned.

These three wells supplied two farms and six cottages, which now have water from the Southport Company.

5.—C. B. Shallow well. Condemned. The rainwater supply to this house was accepted as sufficient.

BICKERSTAFFE.

6.—G. C. H. New deep well. Condemned.

7.—G. C. H. Water entering at the side of this well. Condemned.

8.—G. C. H. The same well after structural alterations.

The water in this well was bad at the time of the first analysis. Very bad surface water was found to be leaking into it, and I thought that this might account for the quality of the water. Part of the well was re-rung and the well emptied several times, but the water was still bad. Rainwater is being used at present.

DOWNHOLLAND.

9.—T. M. New shallow well. Condemned.

10.—T. M. Same well, but suction-pipe had been shortened so as not to touch the bottom. Condemned.

11.—T. M. Same well. A leakage of surface water had been discovered and stopped since the last analysis. Condemned.

12.—T. T. Shallow well. Condemned.

13.—T. T. Shallow well. Condemned.

14.—T. M. Shallow well. Condemned.

15.—T. M. Shallow well. Condemned.

16.—T. M. Shallow well. Condemned.

17.—T. M. Shallow well. Condemned.

18.—T. M. Shallow well. Condemned.

19.—T. M. Shallow well. Condemned.

The last eight wells supply one farm and twenty cottages, to supply which an extension of main is planned. (See map.)

HALSALL.

30.—T. M. Shallow well. Condemned.

31.—T. M. Shallow well. Condemned.

These wells are at the foot of Clieves Hills.

HESKETH.

32.—H. A. Combined well and rainwater cistern. Accepted temporarily. The proposed main from Tarleton to Hesketh will pass these houses. (See map.)

LYDIATE.

33.—J. C. W. Shallow well. Condemned.

34.—G. R. K. Shallow well. Condemned.

35.—P. B. Shallow well. Condemned.

The four houses formerly supplied from these have now Southport water.

MAGHULL.

36.—S. K. Shallow well. Condemned.

The seven houses formerly supplied from this have now Southport water.

MELLING.

37.—P. F. Shallow well. Condemned.

This well was to be allowed to remain until the public service for Melling was available but, as it appears now that this may not be for years to come, I must again call your attention to this well.

SCARISBRICK.

38.—T. M. Shallow well. Barely usable.

39.—J. P. Shallow well. Accepted as usable but not good.

40.—J. H. Shallow well. Accepted as usable but not good.

Two of the houses have now Southport water, as well as several neighbouring cottages. (See map.)

SIMONSWOOD.

41.—H. W. Shallow well. Condemned.

42.—H. W. Deep well. Condemned.

43.—H. W. Shallow well. Condemned.

44.—H. W. Shallow well. Condemned.

45.—H. W. Shallow well. Condemned.

The owner has arranged for an extension of main to be made by the Corporation of St. Helens to the five farms supplied by these wells. (See map.)

46.—The Simonswood brook was said to be much polluted, but analysis and microscopic examination showed the bad appearance to be chiefly due to suspended particles of coal dust and earth, from the washing of coals at a colliery higher up.

TARLETON.

47.—J. H. Rainwater tank. Accepted temporarily, as it is hoped that a public supply will be available shortly.

LEGAL PROCEEDINGS.

On the 5th October, acting under instructions from the Aughton Parochial Committee, I prosecuted a man for failing to notify a case of Scarlet Fever in his house, and for public exposure in sending the patient to Holt Green School while desquamating. I was instructed not to press the case, and the Bench (Ormskirk) inflicted a penalty of one shilling and costs in each case.

The Inspector was obliged to prosecute in cases in Aughton and Formby, and you will find particulars in his report.

HOUSES UNFIT FOR HUMAN HABITATION.

Two houses were condemned, in Formby and Tarleton respectively, on this account.

SYSTEMATIC VISITING

has been made and is practically always going on.

SALE OF FOOD AND DRUGS ACT, 1875.

This Act is administered by the County Police.

I am indebted to Superintendent Jervis, of Ormskirk, for the information that two samples of whisky, two of rum, one of gin, and one of butter were taken in Lydiate; one sample of butter in Downholland; and one sample of whisky and one of rum in Aughton. These were sent to the County Analyst, who found them to be genuine.

Superintendent Norris, of Chorley, has kindly informed me that no samples were taken in Hesketh, Rufford and Tarleton, which townships are under his supervision.

Appended are:—

- (1)—Tables A and B of the Local Government Board;
- (2)—Table C of the County Council of Lancaster;
- (3)—The Inspector's Annual Report;
- (4)—Table giving the Statistics of the District from 1885 to 1894.
- (5)—A Map showing the Public Water Supplies of the District;

I am, Gentlemen,

Your obedient servant,

HERBERT PECK,

L.R.C.P., L.R.C.S.Edin., D.P.H.Camb.,

Medical Officer of Health to the Ormskirk Rural District Council.

K³. Table of DEATHS DURING THE YEAR 1894, in the Ormskirk Rural District, classified according to (A) DISEASES, AGES, and LOCALITIES.

NAMES OF LOCALITIES adopted for the purpose of these Statistics; public institutions being shown as separate localities. (See note 4 on back of sheet.) (Columns for Population and Births are in Table B.) (a)	MORTALITY FROM ALL CAUSES AT SUBJOINED AGES.							(i)	MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																						
	At all ages.	Under 1 year.	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards.		1	2	3	4	FEVERS.						10	11	12	13	14	15	16	17	18	19	20	21	22
													Typhus	Enteric or Typhoid	Contin'd	Relapsing	Puerperal														
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	Smallpox	Scarlatina	Diphtheria	Membranous Group	Typhus	Enteric or Typhoid	Contin'd	Relapsing	Puerperal	Cholera	Erysipelas	Measles	Whooping Cough	Diarrhoea and Dysentery	Rheumatic Fever	Ague	Phthisis	Bronchitis, Pneumonia, and Pleurisy	Heart Disease	Injuries	All other Diseases	TOTAL		
ALTCAR	9	2	1	3	3	Under 5																		1	...	1	1	2	
AUGHTON	50	10	12	5	1	8	14	5 upwards		4				1							2	1			1	3	...	12	23		
BICKERSTAFFE	34	13	7	1	3	3	7	5 upwards												5			1		7	...	1	7	20		
BISPHAM	3	...	..	...	...	3	...	5 upwards																		2	...	1	5
DOWNHOLLAND	11	5	..	1	...	3	2	5 upwards																2	1	...	...	4	5
FORMBY	86	12	11	2	9	29	23	5 upwards	1					1						1	2	3			9	5	4	2	35	63	
HALSALL	27	8	4	...	1	8	6	5 upwards													1				6	...	5	12			
HESKETH	29	7	3	6	1	9	3	5 upwards			1			2						2					1	...	7	10			
LYDIATE	22	3	1	1	2	8	7	5 upwards						1										1	2	4	4	7	13		
MAGHULL	20	4	2	1	3	5	5	5 upwards						1										1	2	1	2	7	14		
MELLING	17	3	...	1	2	7	4	5 upwards																	1	...	2	3			
NORTH MEOLS	26	8	5	1	2	3	7	5 upwards													2				6	...	1	4	13		
RUFFORD	16	2	3	1	1	4	5	5 upwards		3															1	1	2	5	11		
SCARISBRICK	26	3	1	1	...	7	14	5 upwards		1														3	3	3	1	12	22		
SIMONSWOOD	12	5	2	...	.	3	2	5 upwards													2				2	...	1	5	7
TARLETON....	25	4	4	3	1	4	9	5 upwards			1	2												3	2	2	...	10	17		
SHAFTESBURY HOUSE LUNATIC ASYLUM, FORMBY.. }	5	...	.	...	...	5	...	5 upwards																		1	...	6	6
SOUTHPORT FEVER HOSPITAL, NORTH MEOLS.... }	4	...	3	...	1	...	...	5 upwards	1	3																	...	6	3
TOTALS	422	89	58	24	28	112	111	5 upwards	2	11	1	3		6					8	7	6			1	36	30	4	74	148		

The subjoined numbers have also to be taken into account in judging of the above records of mortality. See Note 5 on back.

Deaths occurring outside the district among persons belonging thereto.	9	1	5	3	Under 5</
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NOTES ON TABLES A AND B.

- NOTE 1. Medical Officers of Health of "Combined Districts" must make a separate Return for the District of each District Council.
2. Medical Officers of Health acting for a portion only of the District of a District County Council should write, in the heading of the Table, the designation of the Division for which they act.
 3. The words "Urban," "Rural," or "Metropolitan" must be inserted in the appropriate space in the heading, according as the District is Urban or Rural, or is within the Metropolitan Area.
 4. The "Localities" adopted for the purpose of these statistics should be areas of known population; such as parishes, groups of parishes, townships or wards.

As stated at the head of the first column in each Table, *Public Institutions* should be regarded as separate localities, and the deaths in them should be separately recorded. Workhouses, Hospitals, Infirmaries, Asylums, and other establishments into which numbers of people, and especially of sick people, are received are Public Institutions for the purpose of these statistics.

5. *The deaths which have to be classified in this Table (A), and summed up in the horizontal line of "Totals," are the whole of those registered as having actually occurred in the several localities comprised within the Division or District. But the registered number of deaths frequently requires correction before it can give an exact view of the mortality of a Division or District; and the two lowest horizontal lines are provided for the purpose of enabling Medical Officers of Health to indicate, to the best of their ability, what the extent of such corrections should be. Details concerning the corrective figures, e.g., the institutions that have been considered, or the particular localities to which corrections apply, may appear in the text of the report or in supplementary tables.*

Area and Population of the District or Division to which this Return relates.

Area in Acres, 65,836.

Population (1891), 25,684.

Death Rates. $\left\{ \begin{array}{l} \text{General, } 15.54 \\ \text{Infant, } 122 \end{array} \right\} \left\{ \begin{array}{l} \text{per 1,000} \\ \text{Population.} \\ \text{per 1000} \\ \text{Births Registered.} \end{array} \right.$

In recording the facts under the various headings of Tables A and B, attention has been given to the notes endorsed on the Tables.

HERBERT PECK, Medical Officer of Health.

Date 5th February, 1895.

K² 11. Table of POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS, coming to the knowledge of the Medical Officer of Health, during the year 1894, in the Ormskirk Rural District; classified according to DISEASES, AGES, and LOCALITIES.

NAMES OF LOCALITIES adopted for the purpose of these Statistics; public institutions being shown as separate localities. (See note 2 on back of sheet.) (a)	POPULATION AT ALL AGES		Registered Births. (d)	Aged under 5 or over 5. (e)	NEW CASES OF SICKNESS IN EACH LOCALITY, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH													NUMBER OF SUCH CASE REMOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLATION HOSPITAL.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Census 1891 (b)	Estimated to middle of 1894. (c)			1 Smallpox	2 Scarlatina	3 Diphtheria	4 Membran's Croup.	FEVERS.							10 Cholera	11 Erysipelas	12 Measles not notifiable	13 Whooping Cough not notifiable	1 Smallpox	2 Scarlatina	3 Diphtheria	4 Membran's Croup	FEVERS.							11 Cholera	12 Erysipelas	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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State here whether "Notification of Infectious Disease" is compulsory in the District—Yes. Since when?—January 1st, 1890. Besides the above-mentioned Diseases, insert in the columns with blank headings the names of any that are notifiable in the District, and fill the columns accordingly. State here the name of the Isolation Hospital used by the sick of the District. Mark (H) the Locality in which such Hospital is situated; and if not within the District, state where it is situated. The Southport Fever Hospital in North Meols may be used for the sick of several Townships.

* To Preston Infirmary.

NOTES ON TABLE B.

(See also Notes on back of Table A.)

NOTE 1. The present Table B. is concerned with population, births, and sickness (not with mortality) in the district of division to which the Table relates.

2. As stated in the heading of Col. (a), *Public Institutions* should be regarded as separate localities, and the new cases of sickness in them should be separately recorded. Workhouses, Hospitals, Infirmaries, Asylums, and other establishments into which numbers of people, and especially of sick people, are received, are Public Institutions for the purpose of these statistics.

3. Comments on any unequal incidence of notifiable disease upon the several localities, and considerations as to the local incidence of consumption and other prevalent diseases, should be made in the text of the Report.

Table C.

COUNTY OF LANCASTER.

SUMMARY OF MEDICAL OFFICER'S REPORT FOR
1894.

*THE RURAL SANITARY DISTRICT OF THE ORMSKIRK
UNION.*

Area in Statute Acres—65,830. *Population, enumerated* 1891—
25,684. *Population, estimated* 1894—26,640.

Name of Medical Officer of Health—Herbert Peck.

Date of Appointment—25th March, 1892. *Salary*—£300.

Births Registered $\left\{ \begin{array}{l} \text{Male ... 380} \\ \text{Female 349} \end{array} \right\}$ Total, 729.

Deaths Registered $\left\{ \begin{array}{l} \text{Male ... 242} \\ \text{Female 188} \end{array} \right\}$ Total, 430.

Birth-rate—27·13. Death-rate—15·54. Rate of Infant Deaths,
under one year, to 1,000 births—116.

Death-rate from the *seven principal* Zymotic Diseases, per 1,000
of population—1·61.

Diseases prevalent—Measles.

Period—Spring, early summer, and late autumn.

What Action taken?—See report. Any Schools closed?—Six.
If so, for what Disease?—See page 25 of report.

What is the Character of the Hospital Accommodation?—None,
but the Authority has the privilege of sending patients from
certain Townships to the Southport Fever Hospital.

How is Disinfection carried out?—By householders under the
direction of officials.

Apparatus used?—None.

Is the Infectious Diseases (Notification) Act in force ?—Yes.

Are any Diseases not specifically mentioned in the Act notifiable ?
No.

If so, what are they ?—None.

What is the character of House Accommodation ?—Good on the whole.

How many Back-to-back Houses ?—I cannot say, but very few.

What action has been taken under “ The Housing of the Working Classes Act, 1890 ” ?—Two houses have been closed as unfit for human habitation.

Water Supply—47·8 per cent. by public service. This percentage will soon be much increased. The remainder by deep and shallow wells and rainwater tanks.

Is Scavenging carried out satisfactorily ?—No.

By Sanitary Authority or Contract ?—By householders.

How is the Refuse disposed of ?—Removed by householders or those employed by them.

What is the character of Drainage and the form of Sewage Disposal ?—There is one half-mile of sewer in Aughton ; the cesspool system is in vogue in the rest of the District. The sewerage of Aughton is under consideration.

Canal Boats—Inspected and found very satisfactory on the whole.

What is the condition of the Bakehouses ?—Satisfactory at times of visits.

Slaughter Houses ?—Satisfactory at times of visits.

Lodging Houses ?—Five. Are they Registered ?—Yes.

Are the Dairies, Cowsheds, and Milkshops periodically inspected ?

Yes. Have any Regulations been made by your Authority under the Order of the Local Government Board ?—No.

Have the Factories and Workshops been inspected, and with what result ?—The Cottonite Works in Melling were inspected and found satisfactory.

Offensive trades—None.

Sale of Food and } No. of Samples Purchased—Nine.
Drugs Act. } Prosecutions—None.

Food unfit for Human Consumption—None. Amount seized—None.

River Pollution—Less than in former years.

Any Special Report of Medical Officer of Health during the year ?—Six on closure of schools.

Department of { No. of Notices served—350.
Inspectors of { No. of Legal Proceedings taken and result—
Nuisances ... { Four, all with success.

Smoke { Do you suffer from this form of nuisance ?—No.
 { No. of Observations—None.
 { No. of Legal Proceedings taken and result—None.
 { Give approximately the number of tall chimneys in
 { connection with mills or large works—Three.

Has the Authority adopted—(a) “The Infectious Diseases Prevention Act, 1890 ” ?—Yes. (b) “The Public Health Acts Amendment Act, 1890 ” ?—Yes.

Has any special action been taken in respect of Cholera ?—No.

REPORT OF INSPECTOR OF NUISANCES, 1894,
OF THE
ORMSKIRK RURAL DISTRICT COUNCIL.

Dear Sir,

I have great pleasure in submitting my fourteenth Annual Report, which is for the year ending December 31st, 1894, for the purpose of laying the same before the above-named Council, showing in detail the number of matters dealt with in each Township as they have come under my notice, viz. :—

The number of nuisances from various sources.

Water Certificates under the Public Health (Water) Act, 1878.

Premises occupied in contravention of the said Act.

Other supplies under the Public Health Act, 1875.

Restorations and Additions.

Premises closed under the Housing of the Working Classes Act, 1890.

Common Lodging-houses.

Slaughter-houses.

Bake-houses.

Registration under the Dairies, Cowsheds, and Milk Shops Order 1885.

Legal Proceedings taken.

And number of Notices served.

As previously reported, in each case of water supply for new premises, if from a well the water has been duly analysed and a certificate granted if it has been found fit for domestic use ; if otherwise, the Council has declined to grant a certificate until a satisfactory supply has been provided.

Certificates have also been granted for rain-water supplies where cisterns have been provided of such capacity as to contain 1,000 gallons per house, this being in conformity with the resolution passed by the Council on August 23rd, 1888. At the same time the Southport Company's water was recommended by the Council where it was possible to obtain such a supply.

It will be seen on the reading of my report that the want of water supplies for domestic purposes has received great attention, although there is only a total increase of one hundred and twelve supplies over last year's report, through the whole of the district.

The assistance received this year from the Southport Company and their Engineer (Mr. Rofe) is worthy of notice when we consider that they have extended their main in nine different parts of the district to the extent of 8 miles 1217 yards, and further extensions are pending for the purpose of providing other necessary supplies.

During the year it has again been necessary to request owners of property, under the Public Health Act, 1875, to provide an available supply of wholesome water for domestic use for the inmates of 90 dwellings, being an increase of ten over last year.

Out of that number 49 were available to the Company's mains at the time of notice, and 36 waiting until the extensions referred to above were laid, and 5 awaiting an extension by the St. Helens Corporation.

There are eleven townships which are partly supplied from public service. The total number of supplies is 2,452.

It will be noticed in my report hereafter that there are other townships with water schemes in hand. I trust, therefore, in my next report to be in a position to add to the list of townships supplied by public service.

With respect to premises occupied in contravention of the Public Health (Water) Act, 1878, the temporary supply of rain-water was allowed until a public supply can be provided.

ANALYSES.—I have nothing to report hereon, as the whole duty connected with obtaining of samples for analysis during the past year has been placed upon the Medical Officer of Health.

HOUSING OF THE WORKING CLASSES ACT, 1890.—There have been two dwellings closed under the said Act.

SMOKE TESTER.

This machine, which has been provided during the year, has been found useful for the purpose of testing water-closets and drains.

DAIRIES, COWSHEDS, AND MILKSHOPS ORDER, 1885.

Two applications were made for registration, which received attention, on the premises being made to conform with the Act, and on a supply of the Company's water being put thereon. Registration was granted.

INFECTIOUS DISEASE.

I have in two cases burned bedding, clothing, and other articles exposed to infection, the owners of which were duly compensated by the Council for the loss thereof.

I am pleased to report that in a number of insanitary premises I have been successful in having the same attended to by the owners without the serving of formal notices.

The number of notices served from time to time was 350. In a number of cases the Council allowed an extension of time wherein to furnish the necessary provisions. Failing to comply, legal proceedings were ordered, and in two cases it has been necessary to take such proceedings to enforce compliance with notices served.

NOTIFICATION OF INFECTIOUS DISEASES ACT.

It has been necessary to take proceedings under the said Act for non-notification, also for exposure.

COMMON LODGING-HOUSES.

Proceedings have also been taken for non-registration in one case.

TOWNSHIP OF ALT CAR.

NUISANCES.

Want of drains for house refuse	...	...	...	...	1
Want of ashpit to privy	...	...	...	...	1
Privy dilapidated and filthy	...	...	...	...	1
Roof of dwelling-house	...	...	...	...	1
Cesspool overflowing premises in a filthy state	...	...	...	...	1
Ditch or watercourse filthy...	...	...	...	...	1

TOWNSHIP OF AUGHTON.

Want of water for domestic use	...	..	...	...	10
Privies and ashpits filthy	...	...	...	...	10
Interior of dwelling-house in a foul state	...	...	...	...	1
Pigeons, fowls, and ducks kept in yards and privy, the same. being filthy...	...	...	...	...	2
Dilapidated privies and ashpits filthy	...	...	...	...	4
Drains deficient and stopped	...	...	...	...	8
Dilapidated spouts and roofs of dwellings	...	...	...	...	4
Want of cesspools	...	...	...	...	4
Defective water closet (old pan)	...	...	...	...	1
Deficient foul air pipe to soil pipe from W. C.	...	...	...	...	1
Want of access and ventilation to cesspools	...	...	...	...	3
Ditches or watercourses polluted with sewage	...	...	...	...	7
Cellar flooded with sewage from want of cesspool being emptied	...	...	...	...	1
Deficient and foul ashpits	...	...	...	...	7
Want of trap to sink in cellar	...	..	...	...	1
Deficient traps to drains	...	...	...	...	2
Privies with filthy catchpits abutting dwellings	...	...	...	...	6
Yards flooded with sewage	...	...	...	...	17
Storm-water drain stopped, flooding yard	...	...	...	...	1
Drains dilapidated and deficient	...	...	...	...	15
Privies filthy	..	...	...	...	2
Want of Urinal	...	...	...	...	1
Privy dilapidated	...	...	...	...	1
Pigs kept so as to be a nuisance	...	...	...	...	1
Pigstye abutting dwelling	...	...	...	...	1
Want of drains for house refuse	...	...	...	...	2
Cesspools filthy	...	...	...	...	3
Cesspools dilapidated	...	...	...	...	1
Premises in a filthy state	...	...	...	...	1
Manure deposited within the specified distance	...	...	...	...	1
Want of privy accommodation...	...	...	...	...	2
Drain stoppage	...	...	...	...	2
Sewage discharged on road	...	...	...	...	1
Total					124

SEWERAGE—TOWN END SEWER.

The Manholes and Mud-baskets have been cleaned out as required, and the length of sewer flushed.

PUBLIC HEALTH (WATER) ACT, 1878.

WATER—Certificates have been granted in respect of the following number of new houses, the supplies being as follows, viz.:

Southport Co.'s Water	...	...	...	...	...	6
BAKEHOUSES	...	...	...	...	...	1

These premises have been found in a satisfactory state at the time of visits.

DAIRIES, COWSHEDS, AND MILKSHOPS, 1885.

Application of transfer of Registration	1
---	-----	-----	-----	---

Premises satisfactory and supplied with the Southport Co's water at the time of visit.

LEGAL PROCEEDINGS.

It has been necessary to take proceedings for non-compliance with the Notification Act, and exposure of a child while suffering from an infectious disease. The Bench inflicted a penalty in each case.

PUBLIC WATER SUPPLIES.

The total number of supplies from the Southport Co's main in this township on December 25th being 524, and from the Ormskirk Local Board 63, making the total number 587.

There has been an increase of supplies through the year as follows, viz. :—

Southport Co.	...	..	...	...	...	...	12
Ormskirk Local Board...	...	...	...	...	...	...	2
							14

I am pleased to report that in two cases where a supply of water was required for the inmates of five dwellings, it was necessary to again wait upon Mr. Rofe (engineer to the Southport Co.) as to the extension of their main. And on the same being laid before the Company they agreed to lay the required lengths of main (970 yards) so as to provide the above-named supplies.

[TOWNSHIP OF BICKERSTAFFE.

NUISANCES.

Want of Ashpits	...	...	...	...	...	...	4
Want of drains for house refuse	...	...	...	...	...	...	4
Premises in a filthy state	...	...	...	...	...	...	2
Drain stoppage	...	...	...	...	...	...	5
Cesspool too near dwelling-house	...	...	...	...	...	...	1
Deficient drains	...	...	...	...	...	...	1
Catchpits filthy and too near dwellings	...	...	...	...	...	...	2
Walls and roofs of dwellings dilapidated causing dampness...	...	...	...	...	...	...	2
Want of cesspools being emptied	...	...	...	...	...	...	4
Deposit of refuse on road	...	...	...	...	...	...	1
Pigs kept so as to be a nuisance	...	...	...	...	...	...	2
Brook polluted	...	...	...	...	...	...	1
Deposit of fish in ditch...	...	...	...	...	...	...	1
							<hr/> 30

PUBLIC HEALTH (WATER) ACT, 1878.

Application for Water Certificate under the above Act	...	1
---	-----	---

The intended supply in this case was from a new well, which was sunk at a great expense, but on the water being analysed it was found to be unfit for use, and a rain-water supply recommended.

There are 69 supplies from public service in this township.

PUBLIC WATER SUPPLY.

I mentioned in my last report the difficulty of obtaining a wholesome supply of water, and the necessity of a public supply being provided for this township.

In connection with the matter a house to house enquiry was made with respect to quality and quantity, and the feelings of the residents were ascertained as to their willingness to take the same if obtained, when we found a majority in favour of the supply. At the next meeting of the Council I submitted my

report thereon, and subsequently an application was made to the Skelmersdale Local Board to provide such supply, and, with the sanction of the Local Government Board, the same has been agreed upon. For the purpose of providing the portion of district requiring the supply, the number of houses visited being 119, it will require (owing to the houses being very much scattered) mains to the length of $6\frac{1}{2}$ miles.

Trusting that the work may not be delayed any longer than possible. It would then dispense with the fear of another dry summer, which would cause the inmates of the houses in question another hardship from want of water.

BAKEHOUSES	...	...	...	...	...	...	...	2
								—

These premises were found satisfactory at the time of visit.

PREMISES VISITED AS TO A DISEASED CARCASE OF BEEF	...	1
		—

Nothing was found at the time of visit, or any trace of slaughtering having taken place.

LEGAL PROCEEDINGS THREATENED	...	...	...	...	1
					—

It was not necessary to take such proceedings, as the work was completed within the time allowed.

TOWNSHIP OF BISPHAM.

With respect to this township, I have again to report that no complaint has come under my notice, neither has any complaint been laid.

TOWNSHIP OF DOWNHOLLAND.

NUISANCES.

Want of water for domestic use	...	...	...	...	15
					—

Owing to the bad state of the water supply, both in quality and quantity, it has again been necessary to approach Mr. Rofe, engineer to the Southport Co., to ascertain whether the Company could see their way to extend their main

from the adjoining township for the purpose of providing the above-named premises with water. To forward the required extension Mr. Munford, agent to the Count de Casteja, very readily promised to put water on the whole of premises owned by the Count in this locality, and any other part of the estate where extensions were found necessary to provide the inhabitants with good water. Mr. Rofe promised to lay the matter before the Company at the earliest opportunity, and I am pleased to report the Company have agreed to lay the required extension, and the work I understand will be commenced as soon as the weather will permit. The probable length of main is about one mile.

TOWNSHIP OF FORMBY.

Want of water for domestic use	...	...	...	...	24
Dwelling unfit for human habitation	...	...	...	...	1
Want of drains for house refuse	...	...	...	...	19
Drain stoppage, premises filthy	...	...	...	...	11
Drains dilapidated and untrapped	...	...	...	...	3
Drains defective and stopped	...	...	...	...	2
Cesspools dilapidated, deficient, and surroundings filthy	...	...	...	...	43
Cesspools too near dwellings and overflowing	...	...	...	...	7
Want of access and ventilation to cesspools	...	...	...	...	5
Cesspool filthy and abutting dwelling	...	...	...	...	1
Privies dilapidated and filthy	...	...	...	...	38
Privies and ashpits deficient and in a filthy state	...	...	...	...	5
Privies and moveable receptacles dilapidated and deficient	...	...	...	...	8
Privies and ashpits dilapidated	...	...	...	...	4
Ashpits deficient and filthy	...	...	...	...	28
Want of Ashpits	...	...	...	...	5
Privies dilapidated, defective, and abutting dwelling	...	...	...	...	2
Want of traps to drains	...	...	...	...	4
Receptacles to privies dilapidated and filthy	...	...	...	...	3
Deficient foul air pipes to soil pipes from W. C.s'	...	...	...	...	15
Water closets deficient and foul (old pan)	...	...	...	...	5

Bath and sink waste pipes connected with drains	...	12
Bath and lavatory waste pipes indirectly connected with drains		2
Bath and lavatory waste pipe connected with W. C.	...	1
Deficient water supply to W. C.	... ..	1
Want of ventilation to soil pipe	... ..	1
Want of ventilation to privy	.. ...	1
Catchpit to privy defective and foul	... ..	1
Slopstone pipes untrapped and connected with drains	...	3
Open receptacles in a filthy state	... ..	4
Want of cesspools	... ..	2
Ditches or watercourses filthy	... ..	5
Spouts dilapidated, causing dampness...	... ..	2
Gutters in a filthy state	... ..	2
Middensteads in contravention of Bye Laws (premises filthy)		3
Interior of dwelling-house in a filthy state	... ..	1
Roofs of dwellings dilapidated	... ..	6
Washhouse floor flooded with water	... ..	1
Pigs, ducks, and fowls kept so as to be a nuisance	... ..	3
Stopping and spilling manure in contravention of Bye Laws		1
Deposit of nightsoil on road in contravention of Bye Laws...		1
Premises in a filthy state	... ..	1
Disused middenstead and surroundings filthy	... ..	1
Total		288

PUBLIC HEALTH (WATER) ACT, 1878.

WATER.—Certificates have been granted in respect of the following new houses, the supplies being from the Southport Waterworks Co. 14

REGISTERED COMMON LODGING-HOUSES 2

One out of the number has been kept in a cleanly state, and in conformity with the Act ; in the other case I had to report the whole of the house in a filthy state, and recommended notice to be served for thorough cleansing, which was done ; and, subsequently, the occupier tendered his resignation as the keeper of a common lodging-house, which was accepted ; there now being only one dwelling registered.

UNREGISTERED COMMON LODGING-HOUSE ...	...	...	...	1
				—

In this case legal proceedings were taken against the person keeping such house. The Bench inflicted a fine of five shillings and costs.

REGISTERED SLAUGHTER-HOUSE ...	...	...	...	...	1
					—

I have on each occasion found these premises satisfactorily clean.

BAKEHOUSES ...	...	...	...	...	...	...	...	8
								—

These premises have been kept in a satisfactory state, and in accordance with the Regulations of the Act during the year.

ORDER FOR LEGAL PROCEEDINGS, VIZ :—

If work be not completed in 14 days legal proceedings be taken	...	...	...	...	...	...	...	5
								—

In three cases out of the number the notices were complied with before the time expired; in the other two cases proceedings were taken. One person completed the work before the day of hearing the case, and paid the costs incurred; the other person being fined ten shillings and costs.

WATER SUPPLIES.

I have very great pleasure in again reporting an increase of supplies in this township during the year of the Company's Water, and for the purpose of providing further supplies in some parts it has again been necessary for the Company to extend their mains 740 yards in length.

The number of supplies on the 25th December being 1006, an increase through the year of 34.

TOWNSHIP OF HALSALL.

NUISANCES.

Want of Water for domestic use	...	...	...	...	12
Dilapidated privy without Ashpit	...	...	...	...	1
Want of drains for house refuse	...	...	...	...	2
Dwelling-house dilapidated	...	...	...	...	1
Privy abutting dwelling	...	..	...	...	1
					—
					17
					—

PUBLIC HEALTH (WATER) ACT, 1878.

Water Certificates have been granted in respect of the following number of new houses, the supplies being as follows, viz. :—

Southport Co.'s Water	...	...	...	...	2
Rain Water	...	...	...	...	1
					—
					3
					—

PUBLIC WATER SUPPLY.

As I stated in my last Annual Report that I should be pleased to report the laying of a water main along Carr Moss Lane, a distance of about $3\frac{1}{4}$ miles in length, for the purpose of supplying 23 dwellings, such main being now laid, the inmates are using the Southport Co.'s water.

I also referred to another portion of the township which required a supply of wholesome water, and for that purpose an extension of 266 yards of main has been laid so as to supply the inmates of 6 dwellings.

The total number of supplies in this township from the Company's Water being on the 25th December, 83.

TOWNSHIP OF HESKETH-WITH-BECCONSALL.

NUISANCES.

Dilapidated and filthy privy	...	...	...	...	...	1
Want of drains for house refuse	...	...	...	...	...	4
Want of ashpit	...	...	...	...	...	1
Dilapidated dwelling	...	...	...	...	...	1
Ditches or watercourses in a filthy state	...	...	...	...	...	2
						<hr/> 9

WATER.

There is one farm supplied with the Southport Co's Water, a special branch having been laid for that purpose from the Co's main in the adjoining township.

WATER SUPPLIES.

Owing to the great difficulty in providing a sufficient supply of water to meet the requirements of the residents of this township, the necessity of providing a public supply has been under consideration for some time past. A scheme is now in contemplation, and I trust the day is not far distant when the township will be provided with a plentiful supply of good water, which is so much needed.

ORDER FOR LEGAL PROCEEDINGS, VIZ. :—

If work be not completed in 14 days	...	...	...	...	1
The notice being complied with proceedings were not necessary.					

TOWNSHIP OF LYDIATE.

NUISANCES.

Want of water for domestic use	...	...	...	...	4
Privies and ashpits filthy	...	...	...	...	10
Drain stoppage	...	...	...	...	1
Yard in a filthy state	...	...	...	...	1
Want of ventilation to cesspool	...	...	...	...	1
Dilapidated cover to cesspool	...	...	...	...	1
Ditch or watercourse filthy	...	...	...	...	1
					<hr/> 19

The number of water supplies in this township from the Company's water on the 25th day of December was 67.

BAKEHOUSES 1

On visiting these premises I found them in a satisfactory state.

TOWNSHIP OF MAGHULL.

NUISANCES.

Want of water for domestic use	...	...	...	...	7
Deficient and filthy ashpits...	...	...	...	...	12
Privies dilapidated and filthy	...	...	...	...	14
Cesspool want of emptying...	...	...	...	...	1
Privies foul	...	...	...	...	2
Want of drains	...	...	...	...	4
Want of ashpit to privy	...	...	...	...	1
Cesspools defective and too near dwelling in a filthy state					2
Deficient and foul water-closet (old pan)	...	...	...		1
Waste pipes from bedroom and kitchen sinks connected with drains	...	...	...	...	1
Lavatory basin untrapped	...	...	...	...	1
Flush of water to W.C. insufficient	...	...	...		1
Deficient drainage	...	...	...	...	8
Dilapidated pavement in yard	...	...	...	...	1
Want of foul air pipe to soil pipe from W.C....	...	...	...		1
Waste pipe from urinal defective	...	...	...	...	1
Water cistern dilapidated, causing dampness	...	...	...		1
Urinal dilapidated, surroundings in a filthy state...	...	...	...		1
Pigs kept so as to be a nuisance	...	...	...	...	1
Ditches or watercourses polluted	...	...	...	...	2
					63
BAKE-HOUSE	...	...	...	...	1

Premises found satisfactory at the time of visit.

DAIRIES, COWSHEDS, AND MILK SHOPS ORDER, 1885.

APPLICATION FOR REGISTRATION 1

These premises were unsatisfactory at the time of visit, arising from want of the following, viz. :—Want of light, ventilation, drainage, and lime-washing. On the necessary provisions being provided the applicant was registered as cow keeper and purveyor of milk. Premises also supplied with the Company's water.

The domestic water supplies in this township from the Company's water was, on the 25th day of December, 147.

TOWNSHIP OF MELLING.

NUISANCES.

Want of drains for house refuse	...	...	...	...	3
Want of ashpits to privies...	...	...	...	...	2
Storm water drains stopped causing dampness	...	...	...	...	4
Dilapidated and filthy privies and deficient ashpits	...	...	...	...	12
Drains deficient and stopped	...	...	...	...	5
Premises filthy	...	...	...	...	5
Want of tank to middenstead	...	...	...	...	1
					—
					32
					—

WATER.

One dwelling situate on the boundary receives a supply from the Liverpool Corporation.

WATER SUPPLY.

I consider it my duty to again refer to the want of water in this township, especially at the premises near to the bore hole of the St. Helens Corporation, the wells having suffered loss of water thereby.

I am informed that the delay by the Corporation in not proceeding with the work has arisen through the works in St.

Helens and neighbourhood working short time ; and, the consumption of water not so large in consequence, it has therefore rendered it unnecessary to proceed at present with the Melling scheme. However, the Clerk was instructed to point out to the said Corporation the great need of water in the township, and pressing for supply to be afforded by such Corporation with as little delay as possible.

The result was that the St. Helens Corporation were willing to allow the inhabitants of Melling to cart water from the bore hole, or the Corporation would close such bore hole, with a view of giving the wells in the neighbourhood a chance of furnishing a supply, which, however, cannot be regarded as a satisfactory way of re-furnishing water to the wells in question.

Further negotiations hereon are pending.

TOWNSHIP OF NORTH MEOLS (BANKS AND CROSSENS).

NUISANCES.

Want of cesspools	...	...	...	...	...	...	3
Want of drains for house refuse			...	..	...	...	8
Privies and ashpits filthy	...	...	...	...	...	...	5
Privies in a filthy state	...	...	...	...	...	...	7
Want of ashpits to privies	...	...	...	...	...	...	6
Premises filthy	...	...	...	...	...	...	3
Deficient drains for house refuse	...	...	...	...	...	...	2
Defective trap to drain in the interior of dwelling-house						...	1
Drains deficient and stopped	...	...	...	...	...	...	2
Want of subsoil drainage, houses damp				...	...	...	2
Cesspool filthy	...	...	...	...	...	...	1
Want of proper privy accommodation	...	...	...	...	...	...	3
Deficient middensteads too near dwelling and road						...	2
Overflow from liquid tank	...	...	...	...	...	...	1
Pool polluted	...	...	...	...	...	...	1
Watering for cattle polluted	...	...	...	...	...	...	1
Ditches or Watercourses in a filthy state	...	...	...	...	...	...	6

PUBLIC HEALTH (WATER) ACT, 1878.

Water Certificates have been granted in respect of the following number of new houses, the supplies being as follows, viz. :—

Southport Company's Water	15
Rain Water Supply	2
	<hr/>
	17
	<hr/>

WATER SUPPLIES.

The number of supplies from the Southport Co.'s Water in this township on the 25th day of December is 326.

TOWNSHIP OF RUFFORD.

NUISANCES.

Want of ashpits to privies	4
Want of drains for house refuse	7
Waste pipe from sink connected with untrapped drain ...	1
Privies in a filthy state... ..	3
Privies deficient and foul	2
Privies dilapidated, filthy, and abutting dwellings	2
Ashpit deficient and too near dwelling	1
Drain deficient and untrapped	1
Want of privy accommodation	1
Want of cesspool	1
Premises in a filthy state	1
Deficient middensteads surroundings in a filthy state	2
Ditches or Watercourses filthy	2
Pigs kept so as to be a nuisance	1
	<hr/>
	29

TOWNSHIP OF SCARISBRICK.

NUISANCES.

Want of water for domestic use	13
Want of privy accommodation... ..	2
Want of ashpits to privies	6
Want of drains for house refuse	9

Privy dilapidated and filthy	...	...	...	...	1
Roofs of dwellings dilapidated...	...	...	...	...	5
Cesspool too near dwelling without ventilation	...	...	...	...	1
Premises filthy from deposits of house refuse...	...	...	...	...	1
Defective and foul W. C. (old pan)	...	...	...	...	1
Deficient foul air pipes to soil pipes from W. C's	...	...	...	...	2
Ashpits deficient and foul	...	...	...	...	2
Ditches or Watercourses in a filthy state	...	...	...	...	2
					—
					45
					—

PUBLIC HEALTH (WATER) ACT, 1878.

Water Certificate has been granted in respect of *one* new house, the supply being from the Southport Co.'s Water.

BAKEHOUSE 1

These premises have been kept in a cleanly state and in accordance with the Regulations of the Act.

WATER SUPPLIES.

With respect to the want of a better water supply in this township, I stated in my last annual report that the Southport Company had agreed to extend their mains in two portions of the township. It gives me great pleasure now to report that the Company have far exceeded the extensions referred to by laying two other extensions also. A great difficulty has therefore been removed, and a good water can now be supplied to a large number of dwellings. A portion of such dwellings has already been connected with the mains, and in a short time I expect to report to the Council that all the dwellings along the line of mains are receiving supply there from. The length of the said extensions referred to above is about 4 miles 688 yards.

The number of supplies on the 25th December was 141 from the Company's water.

TOWNSHIP OF SIMONSWOOD.

NUISANCES.

Want of water for domestic use	...	...	...	...	5
Deficient and filthy privies and ashpits	...	...	...	...	2
Want of repairs to dwelling-houses	...	...	...	...	2
Pigs kept so as to be nuisance and midden adjoining road, surroundings filthy	...	...	...	...	1
					<hr/> 10

WATER.—There are 24 premises supplied with water from the mains of the St. Helens Corporation.

WATER SUPPLIES.

As in the previous townships reported upon with respect to the want of water for domestic use, it has been necessary for the purpose of providing the above required supplies, and two other premises previously reported, for the owner to apply to the St. Helens Corporation for an extension of Water main. Such extension, about $1\frac{1}{4}$ miles in length, is now proceeding.

TOWNSHIP OF TARLETON.

NUISANCES.

Dwelling-houses unfit for human habitation (closed)...	...	2
Want of drains for house refuse	...	3
Want of proper privy accommodation...	...	1
Premises filthy	...	1
Drain stoppage	...	4
Want of ventilation and access to cesspool	...	1
Deficient catchpit and want of trap to drain	...	1
Privy dilapidated and foul	...	1
Gutter in a filthy state	...	1
Want of ashpit to privy	...	1
Cesspool overflowing, surroundings filthy	...	1
Deposit of house refuse on road	...	1
		<hr/> 18

PUBLIC HEALTH (WATER) ACT, 1878

WATER—CERTIFICATES (Nil)

Applications for Certificates have been made with respect to six new dwellings, but withheld on account of the intended supplies not being satisfactory, viz. :—

- 1st. At these premises the owner had sunk a well, but on the well being examined and the water analysed it was found unsatisfactory. Subsequently, the owner provided small rainwater tanks.
- 2nd. The provision at these premises being a rainwater tank, but of insufficient capacity.
- 3rd. In this case the tank or cistern had been in use for a considerable length of time and of adequate dimensions, but on examination was found defective, and on the water being analysed it was found to be polluted. The owner was ordered to remedy the defects, and to do other necessary work. In consequence of the said supplies *not* being in accordance with the Act, the Council agreed to accept the rainwater provision in each case as a temporary supply until the proposed public supply is brought past the said premises, the owners to be informed thereof.

REGISTERED COMMON LODGING-HOUSES 3

These premises have again been kept in a cleanly state, and free from infectious disease during the year.

BAKE-HOUSE 1

I have found these premises remarkably clean during the year, and in accordance with the Regulations of the Act.

LEGAL PROCEEDINGS were ordered as follows, viz. :—

If Public Health (Water) Act, 1878, be not complied with in
 14 days 1

The owner complied with the order within the time stated,
 therefore proceedings were not necessary.

WATER SUPPLIES AND WANT OF PUBLIC SERVICE.

With respect to the above I have on many occasions reported upon the great difficulty of obtaining a supply of water for domestic purposes in this township, such water having to be obtained from a number of sources, viz. :— Land drain tiles, pits or ponds, ditches or watercourses, rain tubs, tanks, and ebb or shallow wells, some of the wells being constructed regardless of cost. The water in many instances has to be carried long distances from the above-named sources, and varies very much in quality and quantity, especially in the dry weather. I may here say that I only know of *one* well being sunk that has in any way proved satisfactory. This well was sunk in 1892. The water therefrom was analysed and reported good, but hard, and up to the present time I have not heard of any scarcity in the yield. As this is a dipping well I doubt very much if the water would prove as good now as when it was analysed three years ago. It will, therefore, be clearly seen how important it is that a public service of wholesome water is required for the inhabitants of the township. However, I am pleased to report that it has been found necessary to take into consideration such supply, a scheme being now in hand for a public supply, the same being in connection with the adjoining (Preston) Rural District Council.

I now give in Table Form the total number of matters dealt with in each Township as stated in the foregoing part of my Report.

TOWNSHIPS.	Number of Nuisances dealt with	Water Certificates granted.	Premises Occupied in contravention.	Diseased Meat Premises inspected.	Housing of the Working Classes Act.	Registered Common Lodging Houses.	Unregistered Lodging Houses.	Registered Slaughter Houses.	Bake Houses.	Dairies, Cowsheds, &c.	Legal Proceedings.	Special Reports.	Number of Notices served.	TOTALS.
ALTCAR.....	6	...	...	..	...	...	..	...	...	..	...	..	2	8
AUGHTON	124	6	...	...	...	...	...	..	1	1	2	...	52	186
BICKERSTAFFE... ..	30	...	...	1	...	...	...	...	2	...	..	2	27	62
BISPHAM	<i>Nil</i>	...	...	...	...	...	...	...	...	...	...	...	...	...
DOWNHOLLAND.	15	...	...	...	...	...	...	...	...	...	...	...	...	15
FORMBY	288	14	...	...	...	2	1	1	8	...	2	..	130	446
HALSALL	17	3	...	...	...	...	...	...	...	...	...	..	2	22
HESKETH - WITH - BECCONSALL }	9	...	...	..	...	...	...	..	...	...	..	...	4	13
LYDIATE	19	..	..	..	..	...	...	...	1	...	...	...	11	31
MAGHULL.....	63	...	..	...	...	..	...	...	1	1	...	...	32	97
MELLING	32	...	...	...	...	...	...	..	...	...	...	...	16	48
NORTH MEOLS BANKS & CROSSENS. }	54	17	..	...	...	...	..	...	...	...	...	...	36	107
RUFFORD.....	29	...	...	...	...	...	..	...	...	...	...	...	15	44
SCARISBRICK	45	1	..	..	..	...	...	...	1	..	...	...	10	57
SIMONSWOOD	10	...	...	...	...	...	...	...	...	...	...	...	1	11
TARLETON	18	...	1	...	2	3	...	...	...	...	...	..	12	36
	759	41	1	1	2	5	1	1	14	2	4	2	350	1183

I beg to tender thanks for your kind assistance during the year.—Yours truly,

JAMES PEACH, Sanitary Inspector.
H. PECK, Esq., D.P.H., M.O.H.

ANNUAL REPORT ON CANAL BOATS FOR 1894.

TO THE CHAIRMAN AND MEMBERS OF THE ORMSKIRK RURAL
DISTRICT COUNCIL, 31ST JANUARY, 1895.

GENTLEMEN,

The method of inspection usually adopted by the Inspector is to board the boat when on a voyage, and when the occupants are unprepared for his visit, but he also inspects boats which he finds tied up. He receives *no separate salary* for the work.

The number of boats inspected during the year was forty-nine, and the condition of them and their occupants, taken as a whole, was very satisfactory. Forty-four were found to be "very good" as to *cleanliness*, three to be "good," one "fair," and one "very foul." *The condition of the boats as to repairs* was "very good" in one case, "good" in forty-six, "not good" in one, and "bad" in another.

There was no infringement of the Acts and Regulations with regard to *Registration, Notification of Change of Master, Overcrowding, Separation of the Sexes, Notification of Infectious Disease, or Admittance of the Inspector.*

Four boats were found to be without their certificates. The first of these was the "Jack," 678, of Liverpool, which was *without certificate* on the 28th of September. The Inspector wrote to the owners, Messrs. Parke and Boyd, of Linacre, informing them of this contravention of the Act, and received the required certificate in reply. When returning it, the Inspector recommended that no boat should be allowed to proceed on a voyage without her certificate.

On the 6th of October, the "John and Jane," 844, of Liverpool, owned by the same firm as the last, was found to be *without certificate*, but the master produced the certificate of the

“Jack,” and also Mr. Peach’s letter containing his recommendation to allow no boat to proceed without her certificate. Mr. Peach wrote again to Messrs. Parke and Boyd, and received the proper certificate by return of post.

On the 22nd of November, the “Thomas,” 836, of Liverpool, was *without certificate*, which the master stated he had “forgotten to bring, this being the boat’s first trip.” It was sent later and found to be satisfactory.

On the 22nd November, the “Margaret,” of Liverpool, was *without certificate* and *without a registration number*. The master stated that this was owing to the boat being on her first trip, and that she had not received a number before starting but would be numbered on her return.

There was *want of cleanliness* in one instance. On the 24th of November the Inspector boarded the “Industry,” 715, of Liverpool, and found her cabin in a foul state from the bulkhead next the cargo being defective.

On the 2nd November he found the “Peggy,” 638, of Liverpool, to have 14 inches of *Bilgewater*; her master stated that he was under orders to take her into the dockyard as soon as he had discharged her cargo, and the Inspector found her there next day.

The only means it was found necessary to use to secure *compliance with the Acts and Regulations* were the letters mentioned above.

It was not found necessary to detain any boats for *cleansing or disinfection*.

We are, gentlemen,

Your obedient servants,

HERBERT PECK,

Medical Officer of Health.

JAMES PEACH,

Inspector of Canal Boats.

STATISTICS OF THE ORMSKIRK RURAL DISTRICT FROM 1885 TO 1894.

These Rates are calculated per 1000 living, with the exception of the Infant Mortality Rate, which is reckoned per 1000 Births. The Rates before 1891 have been carefully corrected according to the Census of that year. The Township of Burscough was included in the District till 1894.

	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	Average of ten years. 1885 to 1893.	England and Wales, 1885 to 1893.	Rural England and Wales.
Estimated Population	26,747	26,980	27,214	27,450	27,689	27,930	28,181	28,416	28,663	26,640			
Birth Rate.....	31.55	34.28	32.59	30.67	32.1	29.	29.6	29.13	30.8	27.13	30.68	31.64	
Death Rate	16.93	16.6	17.89	14.79	15.71	15.61	16.4	15.94	17.09	15.54	16.25	19.17	
Zymotic Death Rate..	1.6	.89	1.72	.87	1.4	2.	1.27	.77	1.53	1.61	1.37	2.68	17.5
Smallpox .....	...	...	...	.03	...	...	...	...	...	.03	.006	.03	
Measles .....	.15	.26	.36	.03	.14	.71	...	.1	.17	.3	.22	.45	
Scarlet Fever.....	.18	.18	.40	.14	.18	.18	.24	.14	.31	.41	.24	.24	
Diphtheria.....	.22	.07	.18	.11	.29	.64	.31	.07	.17	.15	.22	.19	
Whooping Cough.....	.37	.26	.11	.29	.43	.14	.28	.07	.03	.26	.20	.43	
Typhus Fever .....	...	...	...	...	...	.03	...	...	...	...	.003	.007	
Enteric or Typhoid Fever .....	.37	.11	.07	.14	.14	.07	.21	.24	.27	.22	.184	.184	
Diarrhoea .....	.3	...	.61	.14	.21	.21	.21	.14	.55	.18	.26	.57	
Croup .....	.41	.22	.22	.25	.18	.03	.1	...	.07	...	.15	.12	
Erysipelas .....	.15	.03	...	...	.18	.03	.03	...	.1	...	.05	.058	
Influenza .....	...	...	...	...	...	.1	.74	.56	.34	.22	...	.16	
Puerperal Fever .....	.03	.03	.07	.03	...	...	...	.14	.07	...	.04	.08	
Rheumatic Fever.....	.15	.11	.03	.03	.07	...	.1	.03	...	.07	.06	.09	
Pulmonary Phthisis..	1.6	1.22	1.43	1.5	1.44	1.28	1.8	1.5	1.2	1.4	1.38	1.63	
Bronchitis, Pneumo- nia, and Pleurisy }	3.32	3.55	3.7	2.7	2.5	2.86	3.5	3.5	3.17	2.8	3.16	3.71	
Cancer .....	.44	.48	.36	.29	.54	.39	.42	.21	.55	.37	.4	.63	
Violence, Accident, and Suicide .....	.82	.63	.51	.4	.83	.73	.42	.42	.76	.75	.62	.64	
Old Age	1.34	1.63	1.8	2.2	1.76	1.9	1.45	2.1	1.7	1.84	1.77	.97	
Infant Mortality	123	124	125	90	126	102	111	118	123	122	116	146	

Altcar.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	570	575	580	585	590	595	600	605	610	616	593
Birth Rate	14	43.6	22.4	23.9	42.4	18.5	26.6	18.2	34.4	22.7	26.67
Death Rate	10.5	22.7	6.9	20.5	18.6	18.5	18.3	13.2	8.2	14.6	15.2
Zymotic Rate .....	...	3.5	1.7	1.7	1.7	3.3	...	1.6	...	...	1.36
Enteric Fever only ...	...	...	...	...	1.7	...	...	...	...	...	.17
Diphtheria only .....	...	...	...	...	...	1.7	...	...	...	...	.17
Croup .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Phthisis	1.7	1.5	...	3.4	5.1	...	3.3	1.6	...	3.2	1.99
Respiratory Diseases..	1.7	5.2	3.4	1.7	5.1	6.7	11.7	3.3	3.2	3.2	4.53
Infant Mortality	125	160	77	...	160	91	125	...	47	143	93

Aughton.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	3274	3304	3336	3367	3399	3431	3464	3497	3530	3563	3418
Birth Rate.....	35.4	39.6	33.3	35.9	37.3	28.2	32	28.6	31.7	27.5	32.95
Death Rate	17.1	19.9	17	13.3	11.8	16.3	13.8	13.7	21.2	14.8	15.89
Zymotic Rate	1.2	1.5	...	.9	.6	1.5	1.1	1.1	2.8	2.5	1.31
Enteric Fever only ...	.3	..	...	.29	...	...	.57	.57	...	.28	.2
Diphtheria only .....	.3	...	...	.29	...	...	...	...	...	...	.06
Croup .....	...	.3	.3	.6	.29	...	...	...	...	...	.15
Phthisis	1.8	2.4	.9	1.2	1.2	.6	.3	.6	1.7	.8	1.14
Respiratory Diseases..	2.7	5.4	4.5	3.5	1.5	2.9	2	3.4	2.8	1.7	3.05
Infant Mortality ...	86	152	135	74	102	154	72	140	160	112	119

Bickerstaffe.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	2229	2220	2211	2202	2193	2184	2176	2166	2158	2149	2189
Birth Rate.....	33.6	29.7	32.9	38.8	26	28.8	35.3	32.7	29.6	35.8	32.33
Death Rate	15.2	17.6	20.3	11.8	15.5	9.1	16.4	15.7	18.1	16.7	15.65
Zymotic Rate ...	2.2	3.1	3.2	.9	.45	.9	.9	.9	.9	2.3	1.59
Enteric Fever only ...	...	..	...	.45	...	...	...	..	...	...	.04
Diphtheria only .....	...	.45	...	...	.45	...	...	...	.46	...	.13
Croup .....	.45	..	.9	.45	.9	...	...	...	.46	...	.316
Phthisis	1.8	.45	1.8	.9	1.4	.45	.45	.9	1.4	.9	1.04
Respiratory Diseases..	3.6	5.4	3.6	3.6	3.6	1.4	7.8	5.5	3.7	6	4.42
Infant Mortality	40	197	83	58	52	47	90	126	93	169	95

Bispham.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years
Estimated Population	271	269	267	265	263	261	258	257	255	253	262
Birth Rate.....	18.5	26	33.7	26.4	22.8	11.5	19.3	11.7	39.2	15.8	22.48
Death Rate	14.8	26	11.2	3.7	15.2	3.8	38.7	27.2	7.8	11.8	16.03
Zymotic Rate .....	...	..	3.7	...	...	...	...	3.9	...	...	.76
Enteric Fever only ...	...	...	...	...	...	...	...	...	..	...	<i>nil</i>
Diphtheria only .....	...	...	3.7	...	..	...	...	...	...	...	.37
Croup .....	...	...	...	...	...	...	...	...	3.9	..	.39
Phthisis	3.6	...	3.7	...	3.8	...	3.9	7.8	...	...	2.28
Respiratory Diseases..	...	11.2	...	...	3.8	...	7.8	7.8	3.9	...	3.44
Infant Mortality .....	...	285	...	...	...	...	400	...	...	...	69

Downholland.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	757	759	762	764	766	769	771	773	775	777	767
Birth Rate	35·6	34·3	40·7	34·	35·2	35·1	40·1	24·6	41·2	18·	33·88
Death Rate ..	18·5	15·8	22·3	22·3	5·2	22·1	22·	16·8	11·6	14·2	17·07
Zymotic Rate	1·3	...	1·3	2·6	...	7·8	1·2	1·3	1·3	...	1·68
Enteric Fever only ...	1·3	...	...	...	...	...	...	1·3	...	...	·26
Diphtheria only .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Croup .....	...	...	...	1·3	...	...	...	...	...	...	·13
Phthisis	2·6	2·6	...	...	...	2·6	2·6	...	1·3	2·6	1·43
Respiratory Diseases..	4·	4·	2·6	5·2	1·3	2·6	2·6	7·8	1·3	1·3	3·26
Infant Mortality	74	115	258	77	74	148	64	52	94	357	131

Formby.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	4668	4867	5075	5292	5518	5753	5999	6255	6522	6801	5735
Birth Rate.....	35·4	39·6	33·3	35·9	37·4	28·2	25·5	25·7	25·3	24·1	31·04
Death Rate	12·2	11·9	17·5	14·4	15·2	11·3	13·5	13·9	12·7	12·1	13·47
Zymotic Rate	·63	...	2·4	·56	1·81	·52	·5	·15	1·5	1·03	·9
Enteric Fever only ...	·21	...	...	·19	...	·17	·33	·15	·3	·14	·15
Diphtheria only .....	...	...	·2	·19	1·09	·35	·17	...	·3	..	·23
Croup .....	...	...	·39	...	·18	...	...	...	...	...	·057
Phthisis	1·5	1·02	2·05	1·32	1·81	1·04	1·	1·75	1·07	1·17	1·37
Respiratory Diseases..	2·35	2·46	2·05	2·45	1·9	1·56	1·33	2·7	1·7	2·35	2·08
Infant Mortality ...	102	100	130	179	130	63	111	55	97	67	103

Halsall.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	1322	1313	1302	1292	1281	1271	1262	1251	1242	1232	1277
Birth Rate.....	27·2	32·8	26·1	26·3	23·4	22·	26·5	14·4	32·2	33·3	26·42
Death Rate	18·9	12·9	16·1	16·3	16·4	11·	14·2	19·9	21·7	22·7	17·01
Zymotic Rate	3·02	...	1·53	3·09	...	·78	·79	...	2·4	·81	1·24
Enteric Fever only ...	·75	...	·76	...	...	...	...	...	1·61	...	·31
Diphtheria only .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Croup .....	...	...	...	...	...	...	·79	...	...	...	·079
Phthisis	2·26	·76	1·53	2·32	...	1·57	1·58	...	2·4	·81	1·32
Respiratory Diseases..	4·5	1·5	3·1	4·6	3·1	3·1	4·	3·4	4·	8·1	3·94
Infant Mortality	111	186	117	117	150	107	117	277	200	195	157

Hesketh.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	890	897	904	912	919	926	934	940	950	956	922
Birth Rate.....	30·3	37·9	40·9	41·7	38·1	36·7	33·1	39·3	37·9	39·8	37·56
Death Rate	20·2	25·6	22·1	10·	16·3	11·9	13·9	17·	18·9	28·2	18·41
Zymotic Rate	3·37	1·11	1·1	...	1·08	1·08	1·06	1·06	1·05	5·23	1·61
Enteric Fever only ...	3·37	...	1·1	...	...	...	1·06	...	1·05	2·09	·87
Diphtheria only .....	...	...	...	...	...	...	...	...	...	1·04	·1
Croup .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Phthisis .....	...	1·11	...	1·1	...	1·08	...	2·1	...	2·09	·75
Respiratory Diseases..	4·5	6·7	5·5	...	3·3	3·2	6·4	2·1	5·3	1·	3·8
Infant Mortality	74	147	54	79	86	29	32	189	139	184	101

Lydiat.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	1074	1075	1076	1077	1077	1078	1079	1080	1081	1082	1078
Birth Rate	27·9	26·9	27·9	26·	29·7	29·7	27·8	24·	30·5	23·3	27·36
Death Rate	21·4	16·7	12·1	11·1	11·1	17·6	13·	14·8	18·5	21·4	15·78
Zymotic Rate	3·72	...	1·86	..	1·85	·92	...	...	·92	·92	1·02
Enteric Fever only ...	2·79	...	...	...	...	...	...	...	...	·92	·37
Diphtheria only .....	...	...	...	...	·92	...	...	...	...	...	·09
Croup .....	...	·46	...	·92	...	...	...	...	...	..	·14
Phthisis	1·86	...	...	·92	1·85	1·85	1·85	2·8	2·8	·92	1·28
Respiratory Diseases..	·93	1·86	·93	...	3·7	5·6	1·9	4·6	·92	1·86	2·22
Infant Mortality	233	103	133	35	125	31	100	76	151	120	110

Maghull.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	1426	1426	1425	1424	1423	1423	1422	1421	1421	1420	1423
Birth Rate	21·	26·	30·9	23·9	22·5	21·1	26·	24·6	25·3	23·9	24·51
Death Rate	18·2	13·3	11·7	15·5	14·8	11·2	11·9	15·5	16·9	14·1	14·3
Zymotic Rate	2·1	...	2·1	·7	...	1·4	2·1	..	1·4	·7	1·05
Enteric Fever only ...	·7	...	...	...	...	...	·7	...	...	·7	·21
Diphtheria only	·7	...	...	...	...	...	...	...	...	..	·07
Croup	·7	·7	·7	...	...	...	...	...	...	...	·21
Phthisis	·7	·7	·7	·7	...	1·4	·7	1·4	·7	·7	·77
Respiratory Diseases..	5·6	·7	2·1	1·4	·7	1·4	1·4	4·2	3·5	1·4	2·25
Infant Mortality ...	200	135	68	176	156	66	81	171	222	118	139

Melling.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	848	860	871	882	894	906	917	930	943	955	902
Birth Rate	24·8	36·	40·2	31·7	30·2	30·9	28·3	35·5	30·7	33·7	32·2
Death Rate	13·	11·6	14·9	13·6	12·3	18·8	9·8	22·6	26·5	18·8	16·19
Zymotic Rate .....	...	...	2·29	...	2·23	...	...	1·07	1·06	...	·66
Enteric Fever only ...	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Diphtheria only .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Croup	2·35	1·16	...	...	...	...	...	...	...	...	·35
Phthisis	2·35	2·32	2·29	1·13	1·12	2·2	1·09	3·2	1·06	4·18	2·1
Respiratory Diseases..	1·2	...	4·6	...	...	5·5	2·2	5·4	3·2	3·2	2·52
Infant Mortality .....	...	62	200	143	148	178	·76	121	172	103	120

North Meols.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	1583	1589	1596	1602	1609	1615	1621	1623	1626	1641	1612
Birth Rate	46·7	38·4	40·1	43·2	42·9	33·4	33·3	42·5	37·5	33·2	39·15
Death Rate	30·3	26·4	23·8	23·1	23·6	17·3	8·6	14·2	19·1	15·8	20·22
Zymotic Rate	5·68	3·77	·62	·62	...	·62	·61	1·23	1·8	1·21	1·62
Enteric Fever only ...	·63	·63	...	...	...	...	...	...	·61	...	·19
Diphtheria only	2·52	...	·62	·62	...	·62	...	...	·61	...	·5
Croup	3·79	63	...	·62	·62	...	...	...	...	...	·57
Phthisis	3·15	2·51	1·87	3·12	4·35	1·23	·61	1·2	2·46	2·43	2·3
Respiratory Diseases..	5·1	3·1	3·1	4·4	1·9	2·5	1·8	1·8	3·6	4·3	3·16
Infant Mortality	162	147	172	76	217	92	92	130	82	145	131

Rufford.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	866	858	848	840	831	823	813	806	797	789	827
Birth Rate	36·9	36·1	41·2	34·5	37·3	31·6	22·1	34·7	31·4	24·1	32·98
Death Rate	24·2	22·1	21·2	14·3	16·8	15·8	23·3	13·6	13·8	17·7	18·29
Zymotic Rate	2·3	1·16	3·53	1·19	2·4	4·9	4·9	...	...	6·33	2·67
Enteric Fever only ...	...	...	...	...	1·2	...	...	...	...	...	·12
Diphtheria only ...	...	1·16	...	...	...	...	...	...	...	...	·12
Croup .....	...	...	...	1·19	...	...	...	...	...	...	·12
Phthisis	3·46	3·48	2·34	...	1·2	3·64	2·46	1·2	...	...	1·78
Respiratory Diseases..	2·3	4·7	2·3	1·2	1·2	...	4·9	2·5	2·5	1·2	2·28
Infant Mortality	312	97	114	69	97	38	220	142	160	105	135
Scarisbrick.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	2234	2234	2235	2235	2236	2236	2237	2237	2238	2238	2236
Birth Rate	33·1	38·9	32·2	31·3	27·7	26·8	28·1	30·4	30·8	24·1	30·35
Death Rate	13·8	15·2	15·7	15·2	12·1	24·1	17·8	14·3	15·2	11·6	16·5
Zymotic Rate .....	...	·45	...	1·34	...	8·49	1·34	...	·89	·44	1·3
Enteric Fever only ...	...	·45	...	...	...	...	...	...	·45	...	·09
Diphtheria only ...	...	...	...	...	...	6·26	·89	...	...	...	·72
Croup	·45	·45	...	...	...	...	·45	...	...	...	·14
Phthisis	2·23	·45	1·34	4·02	1·34	2·23	3·13	·89	·89	1·34	1·79
Respiratory Diseases..	3·1	1·8	4	3·6	2·2	3·1	2·7	2·2	3·1	1·8	2·78
Infant Mortality ...	94	69	83	101	97	183	79	117	58	55	94
Simonswood.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	448	444	440	437	433	429	425	421	418	413	431
Birth Rate	17·9	27	15·9	25·2	23·1	23·3	16·4	28·5	14·3	33·9	22·54
Death Rate	13·4	15·8	6·8	18·3	16·2	11·7	14	11·9	23·9	29·1	16·09
Zymotic Rate .....	...	...	...	...	...	...	...	2·37	4·78	4·84	1·2
Enteric Fever only ...	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Diphtheria only .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Croup .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Phthisis	2·23	...	...	2·29	2·31	2·33	...	...	...	2·42	1·16
Respiratory Diseases..	4·5	2·3	2·3	...	4·6	7	4·7	...	4·8	4·8	3·5
Infant Mortality .....	...	...	...	363	100	200	142	83	333	357	158
Tarleton.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Average of ten years.
Estimated Population	1844	1829	1819	1806	1793	1781	1769	1756	1743	1732	1788
Birth Rate	42·8	37·1	41·2	34·3	37·4	34·8	31	31·9	26·4	28·3	34·53
Death Rate	24·4	17·4	22	15·6	33·5	20·8	24·3	18·8	18·9	14·4	21·01
Zymotic Rate	2·71	·54	1·09	1·1	8·36	1·12	1·69	...	1·14	1·73	1·95
Enteric Fever only ...	...	·54	...	·55	1·11	·56	...	...	·57	...	·33
Diphtheria only ...	...	...	...	...	...	...	...	...	...	1·73	·17
Croup .....	...	...	...	...	...	...	...	...	...	...	<i>nil</i>
Phthisis	·54	·54	1·63	1·1	1·1	·56	2·25	2·3	1·14	1·73	1·29
Respiratory Diseases..	5·4	2·7	6·5	4·4	6·7	6·2	6·2	5·1	5·6	2·3	5·12
Infant Mortality	296	220	107	80	238	193	218	250	239	81	192

PLAN OF WATER MAINS

WITHIN THE RURAL DISTRICT OF ORMSKIRK.



Water Mains laid previous to January, 1894.

Ditto, do. during the year 1894.

Ditto contemplated.

HERBERT PECK, M.O.H.

C. S. BEESTON, MEM. SAN. INST.,
SURVEYOR.

JANUARY, 1895.

ORMSKIRK.

SCALE 1 INCH TO 1 MILE.

FURLONGS 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 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